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Carraway, C. A. C. 1980, **191**, 45–51
Carraway, K. L. 1980, **191**, 45–51
Carrell, R. W. 1980, **191**, 281–283
Carroll, M. 1980, **185**, 541–543
Carter, R. J. 1979, **183**, 589–594
Carter, W. J. 1979, **182**, 651–654
Carvalho, A. P. 1980, **186**, 461–467
Cary, P. D. 1979, **183**, 657–662
Casale, G. P. 1979, **183**, 105–114
Casey, R. P. 1979, **182**, 149–156
Cass, A. E. G. 1979, **183**, 127–132
Castano, J. G. 1980, **186**, 953–957
Casteels, R. 1980, **190**, 827–831
Castroviejo, M. 1979, **181**, 183–191, 193–199
Cataldi De Flombaum, M. A. 1979, **184**, 409–419
Cates, G. A. 1980, **186**, 211–216
Cattell, W. R. 1980, **185**, 679–687
Cawston, T. E. 1979, **183**, 647–656; 1980, **189**, 349–357
Cazzulo, J. J. 1979, **184**, 409–419
Cech, J. M. 1980, **188**, 839–845
Cha, C.-J. M. 1980, **188**, 557–560
Chadwick, C. M. 1980, **186**, 411–421; 1980, **190**, 255–261
Chaiyabutr, N. 1980, **186**, 301–308
Chalmers, R. A. 1980, **190**, 653–658
Chan, P.-K. 1979, **183**, 147–156
Chanarin, I. 1980, **186**, 933–936
Chance, B. 1979, **181**, 763–766; 1979, **183**, 375–379; 1979, **184**, 149–156, 379–389, 555–563; 1980, **185**, 527–530; 1980, **186**, 659–667; 1980, **187**, 131–140; 1980, **188**, 577–583; 1980, **192**, 303–309
Chandrika, S. R. 1980, **191**, 29–36
Chang, H.-Y. 1980, **188**, 153–161
Chang, W. T. 1980, **187**, 843–849
Chaplin, D. D. 1979, **182**, 525–536, 537–546
Chappell, J. B. 1979, **182**, 149–156
Charles, S. A. 1980, **185**, 689–693; 1980, **188**, 775–779; 198[illegible] **189**, 373–376
Charteris, A. T. 1979, **183**, 361–368
Chatterjee, N. K. 1980, **189**, 143–152
Chaudhari, A. 1979, **184**, 51–57
Chayen, J. 1979, **182**, 103–108
Cheah, K. S. E. 1979, **182**, 81–93
Chelton, E. T. J. 1979, **181**, 783–785; 1980, **187**, 257–260
Chen, C.-P. 1980, **188**, 247–254
Chen, S. Y. 1980, **187**, 419–428
Cheng, C. H. K. 1980, **190**, 183–189, 659–662
Chestukhina, G. G. 1980, **187**, 457–465
Chevaillier, P. 1980, **189**, 635–639
Chhabra, S. 1980, **190**, 191–198
Chideckel, E. W. 1980, **192**, 765–767
Childs, R. A. 1979, **181**, 533–538; 1979, **183**, 755–758
Chin-See, M. W. 1980, **190**, 341–348
Chipko, B. R. 1979, **183**, 269–276; 1980, **187**, 893–903
Chiu, A. T. 1979, **184**, 7–12
Chohan, P. 1979, **181**, 83–93; 1980, **186**, 873–879
Choo, K. H. 1979, **181**, 285–294; 1980, **191**, 665–668, 77[illegible] 783
Chotai, K. 1980, **189**, 467–473
Chou, K.-C. 1980, **187**, 829–835
Chou, K.-H. 1980, **186**, 959–969
Chou, T.-H. 1979, **181**, 767–769
Christeller, J. T. 1979, **183**, 747–750
Christie, M. R. 1979, **184**, 697–700; 1980, **192**, 919–927
Christie, W. W. 1980, **191**, 637–643
Chuang, L. T. 1980, **186**, 145–152
Chung, A. 1979, **184**, 713–716; 1980, **186**, 605–608
Chung, H. 1980, **185**, 387–395
Citri, N. 1980, **187**, 529–532
Clapp, J. J. 1980, **186**, 483–490
Clark, D. G. 1979, **184**, 97–106, 501–507; 1980, **188**, 99–10[illegible]
Clark, J. B. 1979, **184**, 539–546; 1980, **188**, 163–168
Clark, M. G. 1980, **186**, 71–79, 431–438
Clark, R. L. 1980, **190**, 615–619
Clark, S. 1980, **186**, 535–540
Clarke, A. E. 1979, **181**, 607–621; 1980, **191**, 437–447
Clarke, D. E. 1979, **181**, 467–475
Clarke, D. J. 1980, **186**, 191–199
Clarke, F. M. 1979, **183**, 663–667; 1980, **186**, 89–98, 99–10[illegible] 105–109
Clarke, J. 1980, **186**, 591–598
Clarke, N. G. 1980, **187**, 253–255; 1980, **191**, 555–560, 56[illegible] 569
Clarke, P. H. 1980, **191**, 811–826
Clegg, R. A. 1979, **182**, 421–427
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Clô, C. 1979, **182**, 641–649
Clonis, Y. D. 1980, **191**, 247–251
Clore, G. M. 1980, **185**, 139–154, 155–167; 1980, **187**, 61[illegible] 622
Clothier, B. 1980, **185**, 739–747
Cloves, J. M. 1980, **185**, 13–21, 23–31
Cockcroft, S. 1979, **182**, 669–676; 1980, **188**, 789–798

Cockrill, J. B. 1979, **181**, 647–658
Coffey, K. H. M. 1979, **182**, 165–171, 173–180
Coggins, J. R. 1980, **191**, 799–809
Coghill, D. R. 1980, **188**, 475–479
Cohen, H. 1979, **182**, 717–725
Cohen, R. D. 1979, **184**, 635–642
Cole, A. L. 1980, **191**, 83–94
Colegate, S. M. 1980, **191**, 649–651
Coleman, R. 1980, **187**, 277–280; 1980, **188**, 321–327
Coll, F. J. 1980, **186**, 713–723
Colosimo, A. 1979, **183**, 701–709
Compernolle, F. 1980, **187**, 857–862
Conde, R. D. 1980, **192**, 935–940
Conley, T. G. 1980, **187**, 727–732, 733–738
Connor, M. J. 1980, **186**, 235–242
Conover, C. A. 1980, **192**, 725–732
Conrad, H. E. 1980, **191**, 355–363
Cook, A. M. 1979, **184**, 453–455
Cook, G. A. 1980, **192**, 955–958
Cook, J. S. 1980, **189**, 461–466
Cooke, B. A. 1979, **184**, 33–38
Cooke, R. J. 1980, **192**, 499–506
Coolbear, T. 1979, **184**, 391–397
Coombs, T. L. 1979, **183**, 277–283
Cooney, D. A. 1979, **181**, 51–59
Cooper, C. S. 1979, **181**, 301–308
Cooper, M. B. 1980, **190**, 737–746
Cooper, S. M. 1980, **187**, 289–295
Corbett, M. D. 1979, **183**, 269–276; 1980, **187**, 205–211, 893–903
Cornell, N. W. 1980, **186**, 423–429; 1980, **192**, 955–958
Cornish, H. C. 1980, **190**, 465–468
Cornish-Bowden, A. 1980, **185**, 535–536; 1980, **191**, 349–354
Corrado, F. J., IV, 1980, **191**, 45–51
Cortes, P. 1979, **182**, 677–686
Coster, L. 1979, **183**, 669–681
Cottin, P. 1979, **183**, 339–347
Cottingham, I. R. 1980, **192**, 9–18, 19–31
Cotton, R. G. H. 1979, **181**, 285–294; 1980, **191**, 665–668, 777–783
Coulson, A. F. W. 1979, **181**, 159–169
Cousins, R. J. 1979, **184**, 627–633; 1980, **190**, 755–764
Coward, J. K. 1980, **187**, 419–428
Cox, R. A. 1980, **186**, 861–872; 1980, **187**, 75–90; 1980, **188**, 509–519; 1980, **190**, 199–214
Cox, R. P. 1979, **182**, 613–615; 1979, **184**, 39–44; 1980, **192**, 687–693
Craft, J. A. 1980, **190**, 737–746
Craig, R. K. 1979, **181**, 501–504, 737–756; 1979, **184**, 261–267; 1980, **186**, 561–570; 1980, **192**, 489–498
Craik, J. D. 1979, **182**, 503–508; 1980, **192**, 373–375
Crankshaw, D. L. 1979, **181**, 593–605
Cranna, C. E. G. 1980, **192**, 559–567
Crawford, A. 1980, **188**, 393–400, 401–407
Creasy, R. C. 1980, **190**, 341–348
Creeth, J. M. 1979, **181**, 717–724
Cress, A. E. 1980, **188**, 375–380
Crettaz, M. 1980, **186**, 525–534
Cronan, J. E., Jr. 1980, **185**, 695–704
Cross, A. R. 1980, **192**, 421–427, 429–439
Crossley, L. G. 1980, **191**, 173–182
Croy, R. R. D. 1980, **185**, 497–503; 1980, **191**, 509–516
Crumpton, M. J. 1980, **190**, 45–50; 1980, **192**, 49–57
Cryer, A. 1979, **181**, 83–93; 1980, **186**, 805–815, 873–879
Cuchillo, C. M. 1980, **189**, 655–657
Cumar, F. A. 1980, **189**, 435–440
Cumming, G. J. 1979, **181**, 257–266
Cummings, J. 1980, **185**, 521–526
Cummins, P. 1980, **191**, 571–580
Cundliffe, E. 1980, **190**, 765–770
Cunningham, C. C. 1980, **188**, 817–822
Curdel, A. 1980, **185**, 455–462
Curtis, C. G. 1980, **185**, 423–433; 1980, **186**, 279–286; 1980, **188**, 561–564
Curtis, D. H. 1980, **190**, 647–652

D'Agostino, A. 1980, **190**, 505–512
Dallocchio, F. 1979, **183**, 297–302
Dalrymple, P. N. 1980, **188**, 941–944
Damgaard, S. E. 1979, **184**, 73–81, 83–88, 89–95; 1980, **191**, 613–618
Dangelmaier, C. A. 1980, **192**, 99–105
Daniel, E. 1979, **183**, 325–330
Daniels, E. L. 1980, **186**, 733–738
Daniels, M. 1980, **189**, 605–614
Daniels, R. S. 1980, **188**, 279–283
Danielsen, E. M. 1980, **189**, 591–603; 1980, **191**, 645–648
Danks, D. M. 1979, **181**, 285–294; 1980, **186**, 629–631; 1980, **191**, 665–668; 1980, **192**, 579–586
Danson, M. J. 1980, **187**, 393–401
Dao, D. D. 1980, **191**, 1–10
Darveniza, P. 1979, **181**, 545–557
Datema, R. 1979, **184**, 113–123
Datta, H. 1980, **190**, 323–332
Dauchy, R. T. 1979, **184**, 185–188
Daughton, C. G. 1979, **184**, 453–455
Davey, J. 1979, **181**, 7–14, 15–20
Davies, D. D. 1980, **191**, 341–348; 1980, **192**, 499–506
Davies, G. E. 1980, **189**, 263–275, 277–284
Davies, T. G. 1980, **190**, 537–544
Davis, E. R. 1980, **186**, 469–473
Davis, J. G. 1979, **182**, 249–251
Davison, A. N. 1980, **190**, 215–223
Dawnay, A. 1980, **185**, 679–687
Dawson, A. P. 1980, **188**, 749–755
Dawson, R. M. C. 1979, **182**, 39–45, 599–606; 1979, **183**, 691–700; 1980, **187**, 253–255; 1980, **191**, 555–560, 561–569; 1980, **192**, 279–283
Day, H. J. 1979, **182**, 413–419
Dayer, J.-M. 1980, **186**, 773–780
Dazord, A. 1979, **182**, 717–725
d'Azzo, A. 1980, **187**, 541–543
Deacon, R. 1980, **186**, 933–936
Deakin, J. F. W. 1980, **189**, 501–506
Dean, P. D. G. 1980, **189**, 27–34; 1980, **191**, 53–62
Dean, R. T. 1980, **186**, 385–390; 1980, **190**, 847–850
Debanne, M. T. 1979, **181**, 633–638; 1979, **184**, 399–407
Debeer, L. J. 1980, **190**, 485–494
De Brito, R. 1980, **192**, 971–974
De Clerck, Y. A. 1980, **186**, 217–225
De Flora, A. 1979, **181**, 559–568
de Fonseka, K. 1979, **183**, 375–379; 1980, **185**, 527–530
Degn, H. 1979, **182**, 11–15
Degroot, J. 1980, **190**, 301–305

De Kretser, T. A. 1980, **186**, 679–685
Delacourt, A. 1979, **181**, 275–284; 1980, **191**, 543–546
Delaisse, J. M. 1980, **192**, 365–368
De Loecker, W. 1979, **184**, 361–365
Delorme, J. 1980, **187**, 851–856
DeLuca, H. F. 1979, **182**, 1–9, 55–69; 1979, **184**, 491–499; 1980, **186**, 475–481
De Luise, M. 1980, **186**, 535–540
Del Vecchio, P. J. 1980, **186**, 605–608
Demain, A. L. 1979, **184**, 427–430; 1980, **186**, 889–895
De Martinez, S. S. G. 1980, **191**, 785–790
De Matteis, F. 1979, **183**, 99–103; 1980, **188**, 145–152; 1980, **189**, 645–648
De Matteis, P. 1980, **187**, 285–288
Denckla, W. D. 1979, **184**, 669–674; 1980, **188**, 55–60
Denton, R. M. 1979, **184**, 23–32; 1980, **190**, 95–105, 107–117; 1980, **192**, 457–467, 469–481
DePierre, J. W. 1980, **192**, 543–550
De Schepper, P. J. 1980, **190**, 485–494
De Schutter, G. 1980, **190**, 827–831
Deshusses, J. 1980, **185**, 253–257
Desideri, A. 1980, **187**, 367–370
Devos, P. 1980, **192**, 177–181
Diaconescu, C. 1980, **186**, 945–952
Dickbuch, S. 1979, **184**, 575–579
Dickinson, F. M. 1980, **191**, 619–626
Dickson, A. J. 1980, **186**, 35–45
Dickson, I. R. 1979, **182**, 429–435; 1980, **185**, 33–39
Dickson, M. R. 1979, **181**, 1–5
Dimitriadis, G. J. 1980, **187**, 467–477
Dingle, J. T. 1979, **184**, 177–180; 1980, **190**, 431–438; 1980, **191**, 835–843
Dingle, T. T. 1980, **190**, 431–438
Dinterman, E. 1980, **190**, 663–671
Dipple, I. 1980, **186**, 649–658; 1980, **190**, 131–137
Doberska, C. A. 1979, **184**, 253–260; 1980, **186**, 749–754; 1980, **188**, 137–140
Dobrota, M. 1980, **190**, 819–826
Dobrovolskii, A. B. 1980, **189**, 219–226; 1980, **191**, 851–854
Dobson, N. 1979, **183**, 395–403
Docampo, R. 1980, **188**, 643–648
Dodds, A. W. 1980, **189**, 67–80
Dodgson, K. S. 1980, **185**, 13–21, 23–31; 1980, **187**, 181–196, 703–709; 1980, **191**, 467–473
Doebber, T. W. 1980, **192**, 597–606
Dohm, G. L. 1980, **188**, 255–262
Donald, A. S. R. 1980, **185**, 327–337
Donaldson, M. K. 1979, **184**, 717–719
Doonan, S. 1980, **192**, 649–658
Dopere, F. 1980, **192**, 607–612
Dopheide, T. A. 1980, **189**, 649–652
Dorling, P. R. 1980, **191**, 649–651
Dorn, C. P. 1979, **183**, 555–559
Døssland, B. 1979, **181**, 119–125
Doströvsky, J. O. 1980, **189**, 501–506
Douglas, K. T. 1980, **187**, 843–849
Douglas, S. 1979, **182**, 885–887
Doumas, J. 1980, **187**, 851–856
Dower, S. K. 1979, **181**, 497–499
Downs, R. W., Jr. 1980, **190**, 439–443
Drabble, W. T. 1979, **183**, 481–494; 1980, **191**, 533–541
Drummond, G. S. 1980, **187**, 157–162; 1980, **190**, 465–468; 1980, **192**, 637–648
Drutsa, V. L. 1979, **182**, 617–619
Dube, D. K. 1980, **186**, 325–329
DuBien, L. H. 1979, **183**, 83–90
Dubowitz, V. 1980, **192**, 257–262
Ducastaing, A. 1979, **183**, 339–347
Duceman, B. W. 1980, **190**, 781–789
Duckworth, G. 1980, **188**, 677–682
Duggan, M. 1980, **187**, 257–260
Duggleby, R. G. 1979, **181**, 255–256
Duine, J. A. 1980, **187**, 213–219, 221–226
Dumler, F. 1979, **182**, 677–686
Dumont, J. E. 1980, **188**, 169–174; 1980, **192**, 241–246, 801–812
Duncan, R. J. S. 1979, **183**, 459–462
Dunn, J. H. J. 1980, **185**, 277–279
Duve, H. 1979, **184**, 221–227
Dwek, R. A. 1979, **181**, 497–499
Dyer, T. A. 1979, **183**, 595–604, 605–613

Earley, F. G. P. 1980, **191**, 429–436
Eckel, J. 1979, **182**, 473–491
Eddleston, A. L. W. F. 1980, **186**, 679–685
Edelstein, S. 1979, **184**, 157–161
Edgell, N. J. 1980, **190**, 107–117
Edgerton, M. E. 1980, **189**, 413–420
Edward, M. 1980, **188**, 769–773
Edwards, G. E. 1979, **184**, 457–460
Edwards, G. F. StL. 1980, **191**, 111–116
Edwards, M. J. 1980, **188**, 677–682
Edwards, M. R. 1980, **186**, 59–69
Edwards, S. W. 1979, **182**, 11–15; 1980, **186**, 669–678
Edwards, Y. H. 1980, **187**, 429–436
Eeckhout, Y. 1980, **192**, 365–368
Egan, J. J. 1980, **185**, 617–627, 629–637
Eglinton, D. G. 1980, **191**, 319–331
Eichner, R. D. 1979, **184**, 229–232; 1980, **188**, 221–228
Eide, S. J. 1979, **182**, 797–802
Eisen, D. 1980, **186**, 633–636
Elce, J. S. 1980, **185**, 473–481
Elder, M. G. 1980, **190**, 17–25, 563–570
Eling, T. E. 1979, **184**, 51–57
Ellington, E. V. 1980, **186**, 621–624
Elliott, J. 1980, **185**, 667–677
Elliott, K. R. F. 1979, **182**, 503–508; 1980, **186**, 649–658; 1980, **192**, 373–375
Elliott, R. M. 1980, **190**, 215–223
Elliott, W. H. 1980, **188**, 781–788; 1980, **190**, 519–526
Ellis, S. A. 1980, **189**, 605–614
Ellison, M. L. 1980, **190**, 545–550; 1980, **191**, 239–246
Ellory, J. C. 1980, **190**, 373–376
Elmore, D. T. 1979, **183**, 389–394
Elsden, D. F. 1980, **185**, 531–534
Emberry, G. 1980, **190**, 263–272
Emerman, J. T. 1980, **192**, 695–702
Engel, J. 1980, **187**, 775–780
Engel, P. C. 1980, **191**, 365–371
England, P. J. 1980, **188**, 763–768; 1980, **192**, 967–970
Epstein, M. 1979, **184**, 713–716
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Erman, A. 1979, **182**, 821–825
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Evans, M. C
Evans, R. K
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Evans, W. H
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Fink, A. L.
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Erny, R. 1980, **188**, 289–295
Esfahani, M. A. 1980, **185**, 715–722
Esgate, J. A. 1980, **190**, 131–137
Esnouf, M. P. 1980, **187**, 239–243
Estall, M. R. 1980, **190**, 737–746
Estes, T. 1980, **190**, 301–305
Estivariz, F. E. 1980, **191**, 125–132
Estrela, J. M. 1980, **188**, 549–552
Evangelopoulos, A. E. 1979, **181**, 309–320
Evans, C. E. 1980, **188**, 321–327
Evans, C. M. 1980, **192**, 449–455
Evans, E. H. 1979, **182**, 861–865
Evans, M. 1979, **184**, 165–168; 1980, **186**, 625–627, 755–761; 1980, **192**, 449–455
Evans, M. C. W. 1979, **182**, 515–523, 861–865
Evans, R. K. 1979, **184**, 675–681
Evans, R. W. 1980, **189**, 541–546
Evans, W. H. 1980, **192**, 903–910
Exton, J. H. 1980, **188**, 443–450
Eychenne, B. 1980, **185**, 733–738
Eyre, D. R. 1980, **188**, 823–837

Faas, F. H. 1979, **182**, 651–654
Faber, J. 1980, **188**, 263–267
Fagg, G. E. 1979, **183**, 159–162
Failla, M. L. 1979, **184**, 627–633
Fain, J. N. 1980, **186**, 781–789; 1980, **188**, 593–599
Farber, E. 1979, **182**, 317–327
Farese, R. V. 1980, **186**, 145–152
Farooqui, A. A. 1979, **181**, 331–337; 1979, **183**, 531–537; 1980, **191**, 827–834
Farstad, M. 1979, **182**, 347–351
Faryna de Raveglia, I. 1980, **186**, 127–133
Fauchére, J.-L. 1980, **186**, 599–603
Faulkes, R. A. 1980, **192**, 49–57
Faulkner, A. 1980, **186**, 301–308
Faust, R. G. 1980, **190**, 731–736
Fazakerley, J. K. 1980, **191**, 183–191
Fears, R. 1979, **182**, 803–809
Feinberg, B. A. 1980, **185**, 515–519
Feizi, T. 1979, **181**, 533–538; 1979, **183**, 755–758; 1980, **187**, 711–718
Feldman, R. 1979, **181**, 733–736
Felix, R. 1979, **183**, 73–81
Fell, H. B. 1979, **184**, 177–180
Felsani, A. 1980, **189**, 313–335
Feltham, L. A. W. 1980, **185**, 761–766
Ferguson, S. J. 1980, **188**, 945–948; 1980, **192**, 231–240
Ferré, P. 1979, **182**, 593–598
Ferri, A. 1979, **183**, 475–476
Fevery, J. 1979, **182**, 881–884
Field, A. C. 1980, **186**, 739–747
Filipkowski, M. 1979, **184**, 149–156
Filipovic, I. 1980, **186**, 373–375
Filliatreau, G. 1980, **191**, 543–546
Filsell, O. H. 1979, **184**, 501–507
Finazzi-Agrò, A. 1980, **187**, 361–366
Fincham, A. G. 1979, **181**, 171–175
Findlay, J. B. C. 1980, **187**, 719–725
Finean, J. B. 1980, **187**, 277–280
Fink, A. L. 1979, **181**, 733–736
Finlay, T. H. 1980, **189**, 481–489
Finne, J. 1979, **181**, 451–456
Fisher, A. B. 1980, **192**, 303–309
Fisher, G. H. 1979, **184**, 713–716
Fitin, A. F. 1980, **188**, 807–815
Fitt, P. S. 1979, **181**, 347–353
Fitzgerald, J. W. 1980, **185**, 13–21, 23–31
Fitzgerald, M. P. 1980, **192**, 665–672
Flamigni, F. 1980, **190**, 469–471
Flanagan, P. R. 1980, **187**, 437–446
Flatt, P. R. 1980, **190**, 361–372
Fleisch, H. 1979, **183**, 73–81; 1979, **184**, 203–214
Fleischer, S. 1980, **188**, 47–54
Fleron, P. 1979, **184**, 73–81
Fletcher, P. L., Jr. 1980, **185**, 695–704
Flint, D. J. 1979, **182**, 421–427
Flint, H. J. 1980, **190**, 1–15
Flint, N. A. 1980, **192**, 903–910
Flokerzi, V. 1980, **185**, 89–99
Florence, T. M. 1980, **189**, 507–520
Fluharty, A. L. 1980, **189**, 45–49
Fogle, D. D. 1980, **191**, 45–51
Forcina, B. G. 1979, **183**, 429–444
Forissier, M. 1980, **188**, 873–880
Formiggini, G. 1980, **188**, 553–556
Forsdyke, D. R. 1980, **190**, 721–730
Forsén, S. 1980, **187**, 829–835
Forster, S. J. 1980, **191**, 873–876
Forstner, G. G. 1979, **181**, 725–732; 1980, **187**, 437–446
Forstner, J. F. 1979, **181**, 725–732
Foster, C. L. 1979, **181**, 525–532
Foster, K. A. 1980, **186**, 847–860; 1980, **190**, 639–646
Fothergill, J. E. 1979, **183**, 573–578, 579–588
Foulds, L. R. 1980, **187**, 65–74
Fouts, J. R. 1979, **182**, 233–235
Fowler, K. 1980, **191**, 777–783
Fox, J. E. B. 1979, **184**, 651–661
Fox, K. R. 1980, **191**, 729–742
Franceschi, C. 1979, **183**, 381–388; 1980, **187**, 525–528
Francis, D. M. 1980, **187**, 819–828
Francis, G. L. 1980, **186**, 571–579, 581–590
Francis, J. E. 1979, **183**, 455–458
Francis, P. 1980, **185**, 537–540
Frank, J., Jr. 1980, **187**, 213–219, 221–226
Franson, R. C. 1980, **186**, 633–636
Fransson, L.-Å. 1980, **191**, 103–110
Franz, H. 1980, **190**, 843–845
Franze-Fernandez, M. T. 1980, **192**, 935–940
Frasch, A. C. C. 1979, **184**, 409–419
Frayn, K. N. 1979, **184**, 323–330
Freedman, R. B. 1980, **191**, 873–876; 1980, **187**, 227–237; 1980, **191**, 373–388, 389–393
Freeman, K. B. 1980, **186**, 227–233
Freeman, R. B., Jr. 1980, **188**, 839–845
Freilich, L. S. 1980, **190**, 307–313
Friedberg, F. 1980, **185**, 387–395
Friedrich, H. 1980, **191**, 165–171
Friesen, H. G. 1980, **187**, 479–492
Friesen, H. J. 1980, **186**, 945–952
Fry, D. J. 1980, **186**, 687–691
Fujiwara, M. 1980, **189**, 393–405
Fukagawa, Y. 1980, **185**, 177–185, 186–188

Fukami, M. H. 1980, **192**, 99–105
Fulton, D. V. 1980, **188**, 749–755
Furneaux, H. M. 1980, **187**, 91–103

Gaal, A. B. 1980, **185**, 783–786; 1980, **191**, 37–43
Gadian, D. G. 1980, **192**, 191–202
Gagliardino, E. E. 1980, **192**, 919–927
Gagliardino, J. J. 1980, **192**, 919–927
Gagnon, J. 1980, **187**, 863–874
Gahl, W. A. 1980, **187**, 197–204
Gahmberg, C. G. 1979, **181**, 451–465; 1980, **185**, 189–194
Galbraith, D. A. 1980, **191**, 63–70
Galdes, A. 1980, **187**, 789–795
Galjaard, H. 1980, **187**, 541–543; 1980, **188**, 337–343
Galkin, A. V. 1980, **190**, 145–156
Gallagher, J. T. 1980, **190**, 243–254
Gallet, D. 1979, **182**, 717–725
Ganguly, J. 1979, **183**, 501–506
Garcia-Sáinz, J. A. 1980, **186**, 781–789
Garland, P. B. 1979, **183**, 561–572; 1979, **184**, 45–50; 1980, **190**, 79–94
Garlick, P. J. 1979, **184**, 547–554; 1980, **186**, 381–383; 1980, **192**, 719–723
Garner, C. D. 1980, **191**, 499–508
Gasiunas, N. 1980, **190**, 243–254
Gasperi-Campani, A. 1980, **186**, 439–441
Gatehouse, J. A. 1980, **185**, 497–503; 1980, **191**, 509–516
Gatt, S. 1980, **185**, 749–754; 1980, **187**, 115–121; 1980, **191**, 669–672
Gaucher, G. M. 1979, **182**, 445–453
Gautvik, K. M. 1980, **189**, 153–159
Gauvreau, D. 1980; **191**, 729–742
Gay, S. 1979, **184**, 683–687
Gaylor, J. L. 1979, **183**, 405–415
Gaynor, J. J. 1980, **186**, 507–513
Genchev, D. D. 1980, **188**, 75–83, 85–90
Genoux, C. 1980, **188**, 873–880
Gerner, E. W. 1980, **188**, 375–380
Gersten, D. M. 1980, **191**, 869–872
Getz, G. S. 1979, **183**, 83–90
Ghanbari, H. A. 1980, **191**, 627–635
Ghisalberti, A. V. 1980, **190**, 685–690
Ghosh, M. 1979, **183**, 185–188
Gibbons, G. F. 1979, **183**, 309–315
Gibbons, I. 1979, **183**, 429–444
Gibbs, A. H. 1980, **187**, 285–288; 1980, **188**, 145–152; 1980, **189**, 645–648
Gibbs, P. A. 1979, **182**, 609–611
Gieselmann, V. 1979, **182**, 329–335
Gietzen, K. 1980, **188**, 47–54; 1980, **189**, 81–88
Gilbert, H. J. 1979, **183**, 481–494; 1980, **191**, 533–541
Giles, I. G. 1980, **185**, 289–299
Gill, K. 1980, **190**, 639–646, 647–652
Gillespie, D. A. F. 1979, **183**, 477–480
Gilman, H. R. 1980, **188**, 593–599
Gilman, J. G. 1980, **192**, 355–359
Giloh, H. 1980, **192**, 793–800
Gioio, A. E. 1979, **183**, 181–184
Girard, J. 1979, **182**, 593–598
Giudicelli, Y. 1980, **192**, 947–950
Glanville, R. W. 1980, **191**, 517–522
Glaser, G. 1980, **192**, 793–800
Glatz, J. F. C. 1979, **182**, 353–360
Gleed, C. 1980, **186**, 599–603
Gleed, C. D. 1980, **192**, 85–89
Gleeson, P. A. 1979, **181**, 607–621; 1980, **189**, 649–652; 1980, **191**, 437–447
Glorieux, F. H. 1980, **191**, 253–256
Glössl, J. 1979, **181**, 37–46
Glover, R. S. 1979, **182**, 1–9
Godfrey, P. P. 1980, **188**, 321–327
Goebels, Y. 1980, **191**, 699–706
Goh, E. H. 1979, **184**, 1–6
Gold, L. I. 1980, **186**, 551–559
Goldberg, A. L. 1980, **188**, 213–220
Goldberg, D. M. 1980, **192**, 165–175
Golden, S. 1979, **182**, 727–734; 1980, **188**, 799–805
Golding, B. T. 1979, **182**, 827–836
Goldsby, R. A. 1980, **188**, 925–928
Goldstein, B. J. 1980, **186**, 351–360
Goldstein, L. 1980, **188**, 557–560
Goldstein, R. B. 1980, **186**, 841–845
Goldstone, A. 1980, **192**, 349–353
Golichowski, A. M. 1980, **192**, 1–8
Golub, E. E. 1980, **185**, 617–627, 629–637
Gomperts, B. D. 1980, **188**, 789–798
Gonzalez-Duarte, R. 1980, **189**, 105–110
Goodall, A. A. 1980, **189**, 533–539
Gooderham, K. 1979, **181**, 659–665
Gooding, P. E. 1980, **191**, 319–331
Goodman, M. N. 1980, **190**, 57–64
Goodwin, D. C. 1980, **191**, 729–742
Goodwin, G. H. 1979, **183**, 657–662; 1980, **191**, 661–664
Goodwin, T. W. 1980, **190**, 537–544
Gordon, J. L. 1980, **190**, 421–429
Gordon, L. M. 1980, **190**, 131–137
Gore, C. H. 1980, **191**, 799–809
Gore, M. G. 1979, **183**, 175–178
Gorin, E. 1979, **184**, 575–579
Görisch, H. 1979, **181**, 153–157, 771–774
Goswami, B. B. 1980, **186**, 325–329
Gougoux, A. 1980, **188**, 741–748
Gould, A. R. 1979, **184**, 215–219
Gould, K. G. 1980, **191**, 365–371
Goyns, M. H. 1979, **184**, 607–612
Graham, A. B. 1980, **185**, 521–526
Graham, J. M. 1979, **182**, 157–164, 165–171, 173–180
Gram, T. E. 1980, **188**, 889–893
Gramenzi, F. 1980, **187**, 637–645
Grand, R. J. A. 1979, **183**, 285–295; 1980, **185**, 755–760; 1980, **189**, 227–240
Grankvist, K. 1979, **182**, 17–25
Grant, D. A. W. 1979, **184**, 619–626
Grant, M. E. 1979, **182**, 81–93; 1980, **190**, 229–237
Grant, P. W. 1980, **187**, 447–456
Grasso, J. A. 1979, **183**, 105–114
Grayson, J. E. 1979, **183**, 239–245, 247–254
Grazi, E. 1979, **183**, 475–476
Graziani, M. T. 1980, **187**, 361–366, 367–370
Greaves, M. W. 1980, **186**, 153–160; 1980, **187**, 819–828
Green, C. 1980, **188**, 131–135; 1980, **191**, 785–790
Green, F. J. 1979, **183**, 547–553
Green, N. M. 1980, **185**, 223–226; 1980, **187**, 591–616
Greengard, O. 1980, **192**, 441–448
Greenwell, [illegible]
Greenwood, [illegible] 413–420
Gregoriadis, [illegible]
Griffin, M. [illegible]
Griffin, W. [illegible]
Griffiths, J. [illegible] 1980, 19[illegible]
Griffiths, W. [illegible] 1980, 19[illegible]
Grigor, M. [illegible]
Grimble, G. [illegible]
Grinich, N. [illegible]
Grinsted, J. [illegible]
Griswold, M. [illegible]
Gross, M. 1[illegible]
Grossmann, [illegible]
Gruber, M. [illegible]
Guarnieri, [illegible]
Guder, W. [illegible]
Guenther, [illegible]
Guenther, [illegible]
Guerri, C. 1[illegible]
Guerrieri, [illegible]
Gull, K. 198[illegible]
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Gurecki, J. [illegible]
Gusev, N. [illegible]
Guthenberg[illegible]
Gutteridge, [illegible]
Gutteridge, [illegible]
Gutteridge, [illegible] 1980, 19[illegible]
Guzelian, P. [illegible]
Gysi, J. R. [illegible]

Haas, W. 19[illegible]
Haase, R. 1[illegible]
Haase, W. 1[illegible]
Hachey, C. [illegible]
Hadjiolov, [illegible]
Haeger, B. [illegible]
Halban, P. [illegible]
Halbreich, [illegible]
Hale, G. 19[illegible]
Hales, B. F[illegible]
Halford, S. [illegible]
Hall, C. 197[illegible]
Hall, D. E. [illegible]
Hall, D. H. [illegible]
Hall, D. O. [illegible] 665–67[illegible]
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Greenwell, P. 1980, **186**, 861–872
Greenwood, C. 1979, **183**, 701–709; 1980, **189**, 285–294, 413–420; 1980, **191**, 319–331
Gregoriadis, G. 1980, **186**, 591–598
Griffin, M. G. 1979, **182**, 317–327
Griffin, W. G. 1980, **187**, 393–401
Griffiths, J. R. 1979, **184**, 173–176; 1980, **186**, 331–341; 1980, **192**, 191–202
Griffiths, W. T. 1980, **186**, 267–278; 1980, **189**, 125–133; 1980, **191**, 277–280
Grigor, M. R. 1980, **187**, 289–295; 1980, **188**, 61–65
Grimble, G. K. 1980, **190**, 225–228
Grinich, N. P. 1980, **189**, 1–8
Grinsted, J. 1980, **191**, 581–592
Griswold, M. D. 1980, **186**, 1001–1003
Gross, M. 1980, **192**, 793–800
Grossmann, K. 1980, **191**, 165–171
Gruber, M. 1980, **192**, 613–621
Guarnieri, C. 1980, **190**, 469–471
Guder, W. G. 1980, **186**, 317–324
Guenther, H. E. 1979, **184**, 203–214
Guenther, H. L. 1979, **184**, 203–214
Guerri, C. 1980, **188**, 549–552
Guerrieri, F. 1980, **192**, 203–218
Gull, K. 1980, **189**, 305–312
Gupta, S. 1979, **184**, 367–377
Gurecki, J. J. 1980, **187**, 269–272
Gusev, N. B. 1980, **189**, 219–226; 1980, **191**, 851–854
Guthenberg, C. 1979, **181**, 47–50
Gutteridge, J. M. C. 1979, **184**, 469–472
Gutteridge, J. P. G. 1980, **185**, 767–770
Gutteridge, S. 1980, **185**, 397–403; 1980, **189**, 615–623; 1980, **191**, 285–288, 499–508
Guzelian, P. S. 1979, **184**, 481–489
Gysi, J. R. 1979, **181**, 577–583

Haas, W. 1979, **181**, 95–105
Haase, R. 1980, **192**, 951–954
Haase, W. 1980, **186**, 169–176, 177–191
Hachey, C. 1980, **189**, 135–142
Hadjiolov, A. A. 1980, **188**, 85–90
Haeger, B. 1980, **192**, 971–974
Halban, P. A. 1979, **182**, 249–251
Halbreich, A. 1980, **188**, 633–641
Hale, G. 1980, **187**, 393–401, 905–908
Hales, B. F. 1980, **189**, 135–142
Halford, S. E. 1980, **191**, 581–592, 593–604
Hall, C. 1979, **184**, 465–468
Hall, D. E. 1980, **190**, 395–403
Hall, D. H. 1980, **186**, 773–780
Hall, D. O. 1979, **183**, 11–22; 1980, **187**, 321–328; 1980, **192**, 665–672
Hallett, M. B. 1980, **192**, 587–596
Halley, D. J. J. 1980, **187**, 541–543
Hallinan, T. 1980, **192**, 971–974
Halliwell, B. 1979, **184**, 469–472; 1980, **185**, 689–693; 1980, **188**, 775–779; 1980, **189**, 373–376
Halsey, M. J. 1980, **186**, 933–936
Ham, J. 1980, **190**, 545–550; 1980, **191**, 239–246
Hamada, S. 1979, **182**, 371–375, 377–382; 1979, **184**, 143–148
Hamann, A. 1980, **187**, 403–412; 1980, **192**, 223–230
Hamilton, T. A. 1979, **181**, 67–73
Hamilton, W. A. 1979, **182**, 687–696; 1979, **184**, 441–449; 1980, **188**, 467–473
Hamstra, A. J. 1979, **182**, 55–69
Handley, C. J. 1979, **181**, 257–266
Hansen, F. B. 1979, **184**, 125–131
Hansen, I. A. 1980, **190**, 171–175
Hansen, J. K. 1980, **186**, 287–294
Hansen, L. J. 1980, **188**, 921–924
Hansen, R. J. 1980, **190**, 615–619
Hanson, F. W. 1980, **186**, 693–700
Hara, H. 1979, **184**, 663–668
Harding, S. E. 1980, **189**, 359–361
Hardingham, T. E. 1980, **185**, 107–114
Hardman, N. 1979, **183**, 477–480; 1980, **187**, 105–113; 1980, **191**, 859–862
Harford, J. B. 1980, **188**, 481–490
Harmony, J. A. K. 1980, **192**, 91–98
Harness, J. R. 1980, **187**, 281–284
Harper, D. B. 1979, **182**, 609–611
Harrington, P. C. 1980, **189**, 641–644
Harris, E. D., Jr. 1979, **181**, 639–645
Harris, E. J. 1979, **182**, 455–464; 1980, **186**, 725–732; 1980, **192**, 551–557
Harris, J. U. 1979, **183**, 623–632
Harris, W. E. 1980, **185**, 787–790
Harrison, D. E. 1980, **192**, 919–927
Harrison, O. S. 1979, **181**, 737–756
Harrison, P. M. 1979, **181**, 709–716
Hartig, P. 1980, **185**, 667–677
Hartley, B. S. 1979, **183**, 31–42
Hartman, P. G. 1979, **183**, 657–662
Harwood, J. L. 1979, **181**, 339–345; 1980, **190**, 851–854; 1980, **191**, 791–797
Hasemann, V. 1979, **183**, 127–132
Haslam, R. J. 1979, **184**, 651–661
Haslam, S. Z. 1979, **182**, 127–131
Haslewood, G. A. D. 1979, **183**, 507–511
Hasnain, S. S. 1980, **191**, 499–508
Hassinen, I. E. 1979, **182**, 95–102; 1980, **188**, 725–729; 1980, **192**, 285–295
Hastings, J. R. B. 1980, **191**, 661–664
Hatton, M. W. C. 1979, **181**, 633–638; 1979, **184**, 399–407
Hauser, P. 1979, **184**, 643–650
Hawley, D. E. 1979, **181**, 1–5
Hayaishi, O. 1980, **189**, 393–405
Hayes, J. D. 1979, **181**, 699–708; 1980, **185**, 83–87
Hazleton, G. A. 1980, **188**, 25–30
Hazlewood, G. P. 1979, **183**, 691–700; 1980, **191**, 555–560, 561–569
Head, J. F. 1980, **187**, 447–456
Headon, D. R. 1980, **188**, 569–572
Healey, J. F. 1980, **188**, 289–295
Heathcote, J. G. 1980, **190**, 229–237
Heathcote, P. 1979, **182**, 515–523
Heatley, F. 1979, **181**, 445–449
Hechtman, P. 1980, **185**, 583–591
Heimberg, M. 1979, **184**, 1–6
Heimer, Y. M. 1979, **183**, 179–180
Heinegård, D. 1979, **183**, 539–545; 1980, **187**, 687–694
Helle, K. B. 1979, **181**, 231–237
Hellerstrom, A. 1979, **182**, 797–802

Hellerstrom, C. 1979, **182**, 797–802
Hellman, B. 1980, **190**, 361–372
Hembry, R. M. 1979, **184**, 177–180; 1980, **191**, 835–843
Hemington, N. 1979, **182**, 39–45
Hemmerich, P. 1979, **181**, 95–105
Hemming, F. W. 1979, **184**, 391–397
Hems, R. 1980, **186**, 701–711; 1980, **190**, 27–37
Henderson, C. E. 1980, **189**, 161–172
Henderson, R. A. 1979, **183**, 471–474
Hendy, M. D. 1980, **187**, 65–74
Henquin, J.-C. 1980, **186**, 541–550
Henry, L. E. A. 1980, **187**, 321–328
Hensgens, H. E. S. J. 1980, **186**, 1–4
Herbert, J. A. L. 1979, **183**, 369–373
Herbst, E. J. 1980, **186**, 925–931
Herchen, S. R. 1979, **184**, 427–430; 1980, **186**, 881–887
Hermon-Taylor, J. 1979, **184**, 619–626
Heron, C. 1979, **181**, 435–443
Herries, D. G. 1980, **192**, 489–498
Hers, H.-G. 1980, **188**, 913–920; 1980, **192**, 177–181, 263–271, 887–895, 897–901
Herscovics, A. 1980, **192**, 133–144, 145–153
Herzfeld, A. 1979, **182**, 771–778
Hesch, R.-D. 1980, **188**, 649–656
Heslop, J. P. 1980, **192**, 247–255
Hess, B. 1980, **189**, 421–433
Hetnarski, K. 1979, **181**, 593–605
Heyma, P. 1980, **190**, 239–242
Hibasami, H. 1980, **187**, 419–428
Hider, R. C. 1980, **188**, 541–548
Higgins, J. A. 1980, **189**, 475–480
Hildmann, B. 1980, **186**, 169–176
Hill, B. C. 1980, **187**, 809–818
Hill, H. A. O. 1979, **183**, 127–132; 1980, **185**, 245–252; 1980, **187**, 789–795
Hillson, D. A. 1980, **191**, 373–388, 389–393
Hiltunen, J. K. 1980, **188**, 725–729; 1980, **192**, 285–295
Hilz, H. 1980, **192**, 223–230
Hinton, R. H. 1980, **190**, 819–826
Hipkiss, A. R. 1980, **188**, 279–283
Hirani, S. 1980, **189**, 467–473
Hirano, M. 1979, **181**, 505–507
Hisatsune, K. 1980, **185**, 77–81
Hiskey, R. G. 1979, **183**, 513–517
Hlavica, P. 1979, **182**, 109–116
Hnilica, S. 1980, **185**, 277–279
Hobden, A. N. 1980, **190**, 765–770
Hobkirk, R. 1980, **191**, 221–227
Hockin, L. J. 1979, **184**, 461–463; 1980, **188**, 937–939
Hodgson, J. C. 1980, **186**, 739–747
Hodson, A. 1980, **190**, 323–332
Hofmann, F. 1980, **185**, 89–99
Hokin, L. E. 1980, **192**, 107–118
Holbrook, J. J. 1980, **191**, 769–776
Holden, J. T. 1980, **190**, 301–305
Holland, P. C. 1980, **186**, 211–216
Holland, R. 1979, **184**, 193–202, 565–569; 1980, **188**, 17–24; 1980, **190**, 551–561
Hollaway, M. R. 1980, **191**, 811–826
Hollenberg, P. F. 1980, **188**, 731–740
Holmsen, H. 1979, **182**, 413–419; 1980, **192**, 99–105
Holroyd, A. J. 1980, **190**, 445–449
Holst, J. J. 1980, **187**, 337–343
Holtzapple, P. G. 1980, **186**, 399–403
Holtlund, J. 1980, **185**, 779–782
Honnor, R. C. 1980, **188**, 757–761
Höök, M. 1980, **187**, 521–524; 1980, **189**, 625–633
Hope, J. 1980, **191**, 125–132
Hopgood, M. F. 1980, **186**, 71–79
Hopkinson, D. A. 1980, **187**, 429–436
Hopkirk, T. J. 1979, **182**, 383–397; 1980, **192**, 507–516
Hoppel, C. L. 1980, **188**, 451–458, 509–519, 521–527, 529–534; 1980, **190**, 495–504
Horiuchi, N. 1979, **184**, 269–275
Hornebeck, W. 1980, **191**, 835–843
Horst, R. L. 1979, **182**, 55–69
Horton, J. R. 1979, **181**, 717–724
Horvath, L. B. 1979, **181**, 367–375
Hounsell, E. F. 1980, **187**, 711–718
Houslay, M. D. 1980, **186**, 649–658; 1980, **187**, 381–392; 1980, **190**, 131–137
Houston, L. L. 1980, **188**, 941–944
Howell, R. M. 1980, **189**, 209–218
Howell, S. L. 1980, **192**, 381–383
Hradec, J. 1979, **182**, 369–372
Hsu, B. Y.-L. 1980, **192**, 119–126
Hsueh, W. 1979, **184**, 345–354
Huang, C.-H. 1980, **187**, 371–379
Huang, L. C. 1980, **187**, 371–379
Hubbard, A. R. 1980, **190**, 653–658
Huddleston, J. A. 1979, **184**, 421–426
Hue, L. 1980, **192**, 263–271, 887–895, 897–901
Hughes, G. J. 1980, **187**, 515–519
Hughes, J. 1980, **191**, 209–219
Hughes, R. C. 1980, **189**, 337–347
Hughes, S. G. 1980, **185**, 59–63, 65–75
Hughes, W. A. 1979, **184**, 23–32; 1980, **192**, 469–481
Hui, D. Y. 1980, **192**, 91–98
Hülsmann, S. 1979, **182**, 109–116
Hume, R. 1980, **188**, 475–479
Hung, W.-Y. 1980, **190**, 711–719
Hungerford, M. 1980, **189**, 9–15
Hunston, R. N. 1980, **187**, 257–260
Hunt, D. M. 1979, **183**, 721–730
Hunt, N. A. 1979, **184**, 427–430
Hunt, W. E. 1980, **187**, 533–536
Hunter, C. N. 1980, **186**, 453–459
Hunter, J. B. 1980, **191**, 799–809
Hunter, M. L. 1980, **191**, 637–643
Hunziker, P. E. 1980, **187**, 515–519
Husby, P. 1980, **188**, 459–465
Hutchinson, D. W. 1979, **181**, 779–781; 1980, **191**, 657–659
Hutton, J. C. 1979, **184**, 291–301, 303–311
Huxtable, C. R. 1980, **191**, 649–651
Huybrechts-Godin, G. 1979, **184**, 643–650
Hwang, D. H. 1979, **184**, 701–704

Ida, M. 1980, **188**, 535–540
Idler, W. W. 1980, **187**, 913–916
Ihara, H. 1980, **185**, 443–450
Ikeda, M. 1980, **187**, 647–653
Ikeda, R. M. 1980, **186**, 693–700

Ilan, E. 1979, **183**, 325–330
Iles, R. A. 1979, **184**, 635–642; 1980, **192**, 191–202
Ilic, V. 1980, **186**, 621–624
Illingworth, J. 1980, **188**, 297–311
Illman, R. J. 1979, **184**, 97–106
Imai, Y. 1980, **187**, 479–492
Imoto, M. 1979, **181**, 505–507
Impraim, C. C. 1980, **186**, 847–860; 1980, **190**, 625–638
Imura, H. 1979, **182**, 371–375, 377–382; 1979, **184**, 143–148
Isobe, K. 1979, **184**, 705–707
Inestrosa, N. C. 1979, **182**, 779–788
Ingledew, W. J. 1979, **182**, 465–472; 1980, **186**, 111–117
Inglin, M. 1980, **185**, 515–519
Ingram, J. 1980, **189**, 591–603
Institóris, E. 1980, **185**, 659–666
Irimura, T. 1980, **187**, 677–686
Irvine, G. B. 1979, **183**, 389–394
Irvine, R. F. 1979, **182**, 39–45, 599–606; 1980, **192**, 279–283
Isaacs, C. E. 1980, **192**, 441–448
Ishikura, T. 1980, **185**, 177–188
Isobe, K. 1980, **185**, 281–284; 1980, **190**, 527–532, 533–536
Israel, Y. 1980, **186**, 483–490
Isselbacher, K. J. 1980, **192**, 133–144
Issinger, O.-G. 1980, **185**, 89–99
Itano, R. 1980, **189**, 455–459
Itano, T. 1980, **189**, 455–459
Ito, A. 1980, **185**, 443–450
Itoh, S. 1979, **184**, 705–707; 1980, **185**, 281–284; 1980, **190**, 527–532, 533–536
Ivanetich, K. M. 1980, **190**, 571–580
Izzo, G. 1980, **192**, 203–218

Jabbal, I. 1979, **181**, 725–732
Jack, P. L. 1980, **187**, 105–113
Jackowski, G. 1980, **188**, 363–373
Jackson, C. M. 1979, **181**, 241–243
Jackson, D. S. 1979, **182**, 81–93
Jacob, S. T. 1980, **190**, 781–789
Jacobsen, C. 1979, **181**, 251–253
Jacobsen, J. 1979, **181**, 251–253
Jagus, R. 1979, **184**, 277–282
Jain, K. M. 1980, **189**, 547–552
Jänne, J. 1980, **188**, 491–501; 1980, **192**, 59–63, 941–945
Janski, A. M. 1980, **186**, 423–439
Janssens, J. Ph. 1979, **184**, 361–365
Janssens, P. 1980, **190**, 27–37
Jarvis, S. M. 1980, **190**, 373–376, 377–383
Järvisalo, J. O. 1980, **192**, 183–190
Jasani, B. 1979, **181**, 623–632
Jaton, J.-C. 1980, **187**, 767–774, 775–780
Jauhonen, V. P. 1979, **182**, 95–102
Jauker, F. 1980, **187**, 141–146
Jeacocke, S. A. 1980, **188**, 763–768
Jeanrenaud, B. 1980, **186**, 525–534
Jellinck, P. H. 1980, **185**, 129–137
Jenkins, R. E. 1979, **181**, 477–493
Jennings, I. G. 1979, **181**, 285–294; 1980, **191**, 777–783
Jesse, R. 1980, **186**, 633–636
Jessup, W. 1980, **190**, 847–850
Jeżewska, M. M. 1979, **181**, 177–182
Jimenez, S. A. 1980, **186**, 5–12

Johansen, J. T. 1979, **183**, 127–132
Johansen, L. 1980, **189**, 153–159
Johansson, S. 1980, **187**, 521–524
John, J. K. 1980, **190**, 799–808, 809–818
John, R. A. 1979, **183**, 361–368
Johns, E. W. 1979, **181**, 659–665; 1979, **183**, 657–662; 1980, **185**, 383–386; 1980, **191**, 661–664
Johns, M. L. 1980, **192**, 959–962
Johnson, A. J. 1979, **183**, 623–632
Johnson, C. E. 1979, **182**, 861–865
Johnson, D. M. A. 1980, **187**, 863–874
Johnson, L. N. 1979, **181**, 21–36
Johnson, M. K. 1980, **185**, 739–747; 1980, **189**, 285–294; 1980, **191**, 319–331, 411–420
Johnson, N. P. 1980, **191**, 581–592, 593–604
Johnson, P. M. 1979, **182**, 763–769
Johnson, S. 1980, **188**, 393–400
Johnson, T. C. 1980, **190**, 605–614; 1980, **191**, 21–28
Johnson, V. G. 1980, **188**, 925–928
Johnston, J. D. 1980, **188**, 475–479
Johnstone, A. P. 1980, **190**, 45–50
Jokinen, M. 1980, **185**, 189–194
Joly, J.-G. 1979, **182**, 317–327
Jones, A. S. 1979, **181**, 783–785; 1980, **187**, 257–260
Jones, A. V. M. 1980, **190**, 851–854
Jones, D. P. 1979, **183**, 405–415; 1979, **184**, 709–711
Jones, H. M. 1980, **186**, 805–815
Jones, J. G. 1980, **188**, 561–564
Jones, L. M. 1979, **182**, 669–676
Jones, O. T. G. 1979, **182**, 181–188; 1980, **186**, 453–459
Jones, P. A. 1980, **186**, 217–225
Jones, R. 1980, **188**, 667–676; 1980, **190**, 505–512; 1980, **191**, 289–297
Jones, R. W. 1980, **188**, 345–350; 1980, **190**, 79–94
Jones, T. R. 1980, **188**, 237–245
Jordan, B. R. 1980, **191**, 791–797
Joseph, S. K. 1979, **184**, 477–480; 1980, **192**, 537–542
Juan, E. 1980, **189**, 105–110
Jubb, R. 1979, **184**, 177–180
Julia, J. Z. 1980, **185**, 695–704
Julien, R. 1980, **185**, 339–347
Jungalwala, F. B. 1980, **186**, 959–969

Kachra, K. 1980, **185**, 583–591
Kacser, H. 1980, **190**, 1–15
Kainuma, K. 1980, **189**, 381–383
Kalnov, S. L. 1979, **182**, 195–202
Kamiński, Z. W. 1979, **181**, 177–182
Kamoda, N. 1979, **182**, 877–879; 1980, **189**, 581–590
Kao, W. W.-Y. 1980, **189**, 491–499
Kaplan, B. B. 1979, **183**, 181–184
Kapp, R. 1980, **188**, 247–254
Kappas, A. 1980, **190**, 465–468; 1980, **192**, 637–648
Käpyaho, K. 1980, **192**, 59–63
Karl, A. F. 1980, **186**, 1001–1003
Karlsson, B. 1980, **185**, 139–154, 155–167
Karnovsky, M. L. 1980, **192**, 543–550
Karpetsky, T. P. 1980, **189**, 263–275, 277–284
Kasir, J. 1980, **192**, 793–800
Kasperek, G. J. 1980, **188**, 255–262
Katrukha, S. P. 1980, **187**, 457–465
Katz, J. 1979, **182**, 727–734; 1980, **188**, 799–805

Kauffman, F. C. 1979, **184**, 675–681
Kauppinen, R. A. 1980, **188**, 725–729
Kauss, H. 1979, **184**, 721–723
Kavanagh, J. 1980, **187**, 739–765
Kawade, N. 1979, **184**, 705–707; 1980, **185**, 281–284; 1980, **190**, 527–532, 533–536
Kawazu, S. 1980, **186**, 183–190
Kay, J. 1980, **185**, 423–433
Kay, J. E. 1979, **182**, 27–32, 237–239; 1979, **184**, 277–282
Kazim, A. L. 1980, **185**, 285–287; 1980, **187**, 163–172, 661–666; 1980, **191**, 261–264, 673–680
Kean, E. A. 1979, **182**, 789–796
Kedersha, N. L. 1980, **189**, 491–499
Keevil, C. W. 1979, **182**, 71–79
Kekwick, R. G. O. 1980, **187**, 667–676
Kelker, H. C. 1980, **187**, 157–162
Kelleher, J. K. 1979, **184**, 581–588, 589–597
Kellett, G. L. 1979, **183**, 349–360; 1980, **189**, 561–567, 569–579
Kells, D. I. C. 1979, **181**, 725–732
Kelly, P. J. 1979, **184**, 581–588, 589–597
Kemmer, F. W. 1980, **190**, 57–64
Kemp, P. 1979, **183**, 691–700
Kennedy, E. L. 1979, **184**, 253–260; 1980, **188**, 137–140
Kennedy, S. M. E. 1980, **191**, 155–163
Kenny, A. J. 1980, **187**, 31–44; 1980, **189**, 591–603; 1980, **191**, 645–648
Kent, P. W. 1979, **181**, 377–385, 387–399; 1979, **182**, 707–716
Kentish, P. 1980, **188**, 107–112
Keokitichai, S. 1980, **187**, 837–841
Kerbey, A. L. 1979, **181**, 419–426, 427–433
Kermekchiev, M. B. 1980, **188**, 85–90
Kern, P. 1979, **182**, 337–345
Kerr, M. A. 1979, **183**, 615–622; 1980, **189**, 173–181
Kessar, P. 1980, **190**, 119–123
Kessel, D. 1979, **181**, 767–769
Khan, M. I. 1980, **191**, 395–400
Khanna, J. M. 1980, **186**, 483–490
Khirabadi, B. S. 1980, **191**, 869–872
Kido, R. 1979, **182**, 877–879; 1980, **189**, 581–590
Kidwell, W. R. 1980, **188**, 437–441
Kiener, P. A. 1980, **191**, 111–116
Kihara, H. 1980, **189**, 45–49
Killilea, S. D. 1980, **187**, 303–309, 311–320
Kilpatrick, D. C. 1979, **184**, 215–219; 1980, **185**, 269–272; 1980, **191**, 273–275
Kimata, K. 1980, **191**, 193–207
Kinders, R. J. 1980, **190**, 605–614
King, I. A. 1980, **190**, 65–77
King, S. R. 1980, **192**, 1–8
Kinnon, C. 1980, **186**, 971–975
Kinnunen, P. K. J. 1979, **181**, 245–246
Kinsella, J. E. 1979, **184**, 701–704; 1980, **189**, 363–366; 1980, **191**, 269–272
Kirby, C. 1980, **186**, 591–598
Kirsch, K. 1979, **182**, 203–212, 213–221; 1980, **192**, 133–144, 145–153
Kitaoka, S. 1979, **184**, 189–192; 1980, **186**, 377–380
Kitson, T. M. 1979, **183**, 751–753
Kivirikko, K. I. 1979, **183**, 303–307; 1980, **189**, 247–253
Klein, P. 1980, **187**, 403–412
Klein, R. A. 1979, **183**, 691–700
Klemes, Y. 1980, **187**, 529–532
Kletzien, R. F. 1980, **192**, 753–759
Knackmuss, H. J. 1980, **192**, 331–337, 339–347
Knauer, G. R. 1980, **187**, 269–272
Knauer, T. E. 1980, **187**, 269–272
Knight, B. L. 1980, **185**, 435–441
Knight, C. G. 1980, **189**, 447–453; 1980, **191**, 835–843
Knook, D. L. 1980, **192**, 613–627
Knott-Hunziker, V. 1980, **187**, 797–802
Knowler, J. T. 1980, **186**, 405–410; 1980, **187**, 265–267
Knowles, S. E. 1980, **188**, 895–903
Knox, P. 1980, **185**, 349–354
Knudsen, J. 1979, **181**, 267–274; 1980, **186**, 287–294
Knutton, S. 1980, **190**, 625–638
Koch, J. 1980, **189**, 95–104
Kodicek, E. 1979, **182**, 429–435
Koehler, K. A. 1979, **183**, 513–517
Koenig, H. 1980, **192**, 349–353
Koga, M. 1979, **183**, 683–690
Köhle, H. 1979, **184**, 721–723
Koj, A. 1980, **192**, 929–934
Kolb, H. 1980, **186**, 827–831
Kolb-Bachofen, V. 1980, **186**, 827–831
Koller, M.-E. 1980, **188**, 329–385
Kondo, S. 1980, **185**, 77–81
Kondrup, J. 1979, **184**, 63–71, 73–81, 83–88, 89–95
Konomi, T. 1979, **184**, 427–430
Kooistra, T. 1980, **192**, 613–621
Kornberg, H. L. 1980, **192**, 659–664
Kostina, L. L. 1980, **187**, 457–465
Kotecha, S. 1980, **190**, 199–214
Kotlar, T. J. 1979, **183**, 171–174; 1980, **192**, 845–851
Kotova, T. S. 1980, **187**, 457–465
Koul, O. 1980, **186**, 959–969
Kozlov, I. A. 1979, **182**, 617–619; 1980, **192**, 483–488
Krab, K. 1980, **186**, 637–639
Krebs, H. A. 1980, **186**, 701–711
Kreil, G. 1979, **181**, 623–632
Kress, B. C. 1980, **186**, 971–975
Kresse, H. 1979, **181**, 37–46, 677–684
Krishna, R. V. 1979, **181**, 215–222, 223–230
Kristensen, B. 1979, **182**, 11–15
Kristensen, T. 1980, **185**, 779–782
Kronick, P. 1980, **186**, 5–12
Kronman, M. J. 1979, **183**, 255–268
Kruppa, J. 1979, **181**, 295–300
Krusius, T. 1979, **181**, 451–456
Kuhlenschmidt, T. B. 1980, **192**, 597–606
Kuhn, C., III 1979, **184**, 345–354
Kuhn, N. J. 1979, **182**, 287–294; 1980, **188**, 503–507; 1980, **190**, 621–624
Kukulska-Langlands, B. M. 1980, **191**, 799–809
Kuliszewski, M. J. 1980, **190**, 791–797
Kumar, A. 1980, **186**, 81–87; 1980, **188**, 229–235
Kurian, P. 1980, **191**, 869–872
Kurihara, T. 1980, **191**, 71–82
Kurth, J. 1979, **182**, 437–443
Kurup, C. K. R. 1980, **190**, 191–198
Kustin, K. 1979, **181**, 457–465
Kuusi, T. 1979, **181**, 245–246
Kyle, D. 1979, **183**, 417–427

Lacey, J. H. 1980, **192**, 537–542
Laing, W. A. 1979, **183**, 747–750
Lam, L. S. L. 1980, **192**, 929–934
Lamont, A. 1980, **190**, 79–94
Lamy, M. T. 1980, **185**, 397–403; 1980, **191**, 285–288
Lang, C. A. 1980, **188**, 25–30
Lang, G. 1980, **191**, 449–455
Lang, J. 1979, **182**, 621–624
Lange, A. B. 1980, **190**, 341–348
Langhorne, J. 1980, **187**, 711–718
Lanni, C. 1980, **186**, 633–636
Lapière, C. M. 1980, **191**, 699–706
Larkins, R. G. 1980, **186**, 535–540; 1980, **190**, 239–242
Larraga, V. 1980, **186**, 713–723
Laurent, T. C. 1979, **181**, 241–243
Lavine, J. E. 1979, **181**, 647–658
Lavrenova, G. I. 1980, **187**, 345–352
Lazarus, N. R. 1979, **184**, 221–227
Lazdins, J. 1980, **192**, 543–550
Lazier, C. B. 1980, **192**, 733–740
Lazo, P. A. 1980, **190**, 705–710
Leader, D. P. 1980, **189**, 241–245
Leakey, J. E. A. 1979, **182**, 233–235
Leatherbarrow, R. J. 1980, **189**, 27–34
Ledley, R. S. 1980, **191**, 869–872
Lee, C. R. 1980, **185**, 593–599
Lee, L. M. Y. 1980, **187**, 437–446
Lee, W.-K. 1980, **185**, 245–252
Lee, Y. C. 1980, **192**, 597–606
Lefebvre, Y. A. 1980, **186**, 641–647
Leff, P. 1980, **187**, 739–765
Lefort, E. 1980, **188**, 169–174
Legg, R. F. 1979, **184**, 461–463; 1980, **190**, 843–845
Lehman, W. 1980, **187**, 447–456
Lehmann, H. 1980, **191**, 681–697
Leighton, F. 1979, **182**, 779–788
Leisinger, T. 1979, **181**, 215–222, 223–230
Leloir, L. F. 1980, **191**, 257–260
Lem, H. H. 1979, **184**, 689–694
Lemieux, G. 1980, **188**, 741–748
Lemon, M. 1980, **186**, 491–498, 499–505
Lenzen, S. 1980, **186**, 135–144
Leone, R. M. 1980, **185**, 537–540
Letcher, A. J. 1980, **192**, 279–283
Levin, N. W. 1979, **182**, 677–686
Lévy, C. 1980, **185**, 733–738
Levy, C. C. 1980, **189**, 89–93, 263–275, 277–284
Lewis, L. 1980, **186**, 971–975
Lewis, R. A. 1979, **183**, 547–553
Lewis, S. B. 1980, **186**, 733–738
Liao, S. 1979, **184**, 431–440
Libby, P. 1980, **188**, 213–220
Licastro, F. 1980, **187**, 525–528
Lichtner, R. 1979, **181**, 759–761
Liew, C.-C. 1979, **183**, 147–156; 1980, **188**, 363–373
Lifely, M. R. 1980, **191**, 305–318
Light, N. D. 1980, **185**, 373–381, 531–534; 1980, **189**, 111–124
Lim, L. 1979, **182**, 241–243; 1979, **184**, 465–468; 1980, **186**, 295–300; 1980, **190**, 17–25, 215–223, 563–570, 691–695, 833–837
Lim, L.-K. 1980, **190**, 519–526
Limas, C. J. 1980, **188**, 67–73; 1980, **192**, 867–872
Limbrick, A. B. 1980, **188**, 881–887
Lindahl, R. 1979, **183**, 55–64
Lindahl, U. 1979, **181**, 241–243; 1979, **182**, 189–193; 1980, **189**, 625–633
Lindh, L. M. 1979, **184**, 33–38
Lingens, F. 1979, **181**, 771–774
Linker, A. 1979, **183**, 711–720
Lippman, M. E. 1980, **188**, 437–441
Little, C. 1980, **188**, 39–46
Littler, W. A. 1980, **191**, 571–580
Litvak, S. 1979, **181**, 183–191, 193–199
Livesey, G. 1979, **184**, 519–526; 1980, **188**, 705–713, 895–903
Livingston, J. N. 1980, **186**, 351–360
Lloyd, D. 1979, **182**, 11–15; 1979, **184**, 149–156, 555–563; 1980, **186**, 669–678
Lobley, G. E. 1979, **182**, 867–874; 1980, **192**, 623–629, 631–636
Lockley, W. J. S. 1980, **190**, 537–544
Loewenberg, J. R. 1980, **185**, 515–519
Lomax, M. A. 1980, **186**, 47–57
Londei, P. 1980, **189**, 313–335
Londesborough, J. 1979, **181**, 539–543
Long, W. F. 1980, **188**, 769–773
Longas, M. O. 1980, **189**, 481–489
Longenecker, J. P. 1980, **188**, 847–857, 859–865
Loor, R. 1979, **184**, 431–400
Lord, J. M. 1979, **182**, 629–631
Lord, T. J. 1979, **184**, 283–290
Lorenzoni, E. 1979, **182**, 633–635; 1980, **186**, 443–452
Lorusso, M. 1979, **182**, 133–147; 1980, **192**, 203–218
Loveridge, N. 1979, **182**, 103–108
Lovie, J. M. 1979, **182**, 867–874
Lowe, C. R. 1979, **183**, 481–494; 1980, **191**, 247–251
Lowry, M. 1980, **190**, 771–780
Lowry, P. J. 1980, **191**, 125–132
Lowther, D. A. 1980, **188**, 119–130
Loyter, A. 1980, **187**, 115–121
Lu, C. Y. 1980, **192**, 349–353
Lucas, J. J. 1980, **186**, 791–798
Lücke, H. 1979, **182**, 223–229
Lucy, J. A. 1979, **182**, 555–563; 1980, **192**, 829–836
Lumb, M. 1980, **186**, 933–936
Lumsden, J. 1980, **190**, 545–550; 1980, **191**, 239–246
Lund, P. 1979, **184**, 599–606; 1980, **188**, 705–713
Lundquist, F. 1979, **184**, 83–88, 89–95
Luscombe, M. 1980, **191**, 769–776
Lusk, L. T. 1979, **183**, 83–90
Lutaya, G. 1979, **184**, 173–176; 1980, **186**, 331–341
Luzikov, V. N. 1979, **182**, 195–202; 1980, **190**, 145–156
Luzio, J. P. 1980, **186**, 59–69, 897–906
Lyall, R. M. 1980, **185**, 277–279

Macara, I. G. 1979, **181**, 457–465
Macdonald, J. A. 1980, **186**, 483–490
MacDonald, M. L. 1979, **184**, 473–476
MacDougall, A. J. 1980, **191**, 855–858
Macfarlane, C. C. 1980, **189**, 51–65
Machado, A. 1980, **186**, 799–803
Machin, P. A. 1979, **181**, 21–36

MacNeil, S. 1980, **188**, 393–400, 401–407
MacNicholl, A. D. 1980, **186**, 279–286
Macpherson, A. J. S. 1980, **186**, 749–754
Madapallimattam, G. 1979, **183**, 115–126
Madhok, T. C. 1979, **184**, 491–499
Magee, A. I. 1979, **184**, 619–626
Mager, J. 1980, **188**, 633–641; 1980, **192**, 793–800
Maggio, B. 1980, **189**, 435–440
Magri, E. 1979, **183**, 475–476
Mahadevan, S. 1980, **190**, 177–182
Mahany, T. 1980, **191**, 869–872
Mai, J. 1979, **184**, 701–704
Maines, M. D. 1980, **190**, 315–321
Mains, I. 1980, **191**, 457–465
Majamaa, K. 1979, **183**, 303–307
Majumder, G. C. 1979, **183**, 737–743
Makino, M. 1979, **182**, 877–879; 1980, **189**, 581–590
Malaisse, W. J. 1979, **184**, 291–301, 303–311; 1980, **186**, 183–190
Malbon, C. C. 1980, **188**, 593–599
Malcovati, M. 1980, **189**, 421–433
Mallik, B. 1980, **189**, 547–552
Mallinson, P. D. 1980, **187**, 533–536
Mallon, D. E. 1980, **186**, 453–459
Malmström, A. 1979, **183**, 669–681
Malmström, B. G. 1980, **185**, 139–154, 155–167
Malt, R. A. 1980, **188**, 229–235
Maltese, W. A. 1979, **182**, 367–370; 1980, **192**, 709–717
Malthouse, J. P. G. 1979, **183**, 223–231, 233–238; 1980, **185**, 217–222, 767–770; 1980, **191**, 265–267, 707–718
Malthus, R. 1980, **188**, 99–106
Mann, J. R. 1980, **186**, 629–631
Mannaerts, G. P. 1980, **190**, 485–494
Mannervik, B. 1979, **181**, 47–50; 1979, **183**, 23–30; 1980, **190**, 125–130
Mapleston, R. E. 1980, **189**, 125–133
Marchetti, M. 1980, **188**, 553–556
Marchmont, R. J. 1980, **187**, 381–392
Markhus, M. 1980, **189**, 421–433
Marklund, S. 1979, **182**, 17–25
Marmstål, E. 1979, **183**, 23–30
Marr, W. 1980, **190**, 17–25, 563–570
Marra, E. 1980, **192**, 649–658
Marsh, C. A. 1979, **181**, 1–5
Marsh, H. C. 1979, **183**, 513–517
Marshall, C. M. 1980, **192**, 119–126
Marshall, M. 1980, **189**, 533–539
Marshall, R. D. 1979, **181**, 525–532
Marshall, S. E. 1980, **191**, 769–776
Marston, S. B. 1980, **185**, 355–365
Martin, B. R. 1979, **184**, 253–260; 1980, **186**, 749–754; 1980, **188**, 137–140
Martin, L. 1979, **184**, 509–517; 1980, **188**, 867–872
Martin, L. C. 1979, **184**, 713–716
Martino, E. E. 1980, **188**, 643–648
Martyn, P. 1980, **190**, 171–175
März, L. 1979, **181**, 633–638; 1979, **184**, 399–407
Mascaro, K. 1980, **192**, 1–8
Maske, R. 1980, **187**, 245–248
Mason, A. N. 1979, **184**, 613–618
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Matsumoto, T. 1979, **184**, 269–275
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Matsuzaki, F. 1980, **187**, 479–492
Matthews, I. T. W. 1980, **191**, 835–843
Mauldin, D. 1980, **187**, 507–513
Maume, B. F. 1980, **187**, 851–856
Maume, G. 1980, **187**, 851–856
Mavris-Vavayannis, M. 1979, **184**, 107–112
Mawby, W. J. 1979, **183**, 193–203; 1980, **187**, 493–500
May, B. K. 1980, **188**, 781–788; 1980, **190**, 519–526
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Mayer, R. J. 1979, **181**, 7–14, 15–20; 1979, **182**, 837–845; 1980, **186**, 937–944; 1980, **192**, 311–320, 321–330
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Melvin, W. T. 1980, **188**, 229–235
Menashe, M. 1980, **188**, 263–267
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Mersmann, G. 1979, **182**, 329–335
Mertens, K. 1980, **185**, 647–658
Metcalf, D. 1980, **185**, 301–314
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Metcalfe, J. C. 1979, **184**, 253–260
Methven, P. 1980, **186**, 491–498, 499–505
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Meyers, M. 1980, **192**, 881–885
Mezzetti, G. 1979, **184**, 431–440
Mian, N. 1979, **181**, 377–385, 387–399; 1979, **182**, 707–716
Michell, R. H. 1979, **182**, 661–668, 669–676; 1980, **187**, 277–280
Micklem, K. J. 1980, **186**, 847–860; 1980, **190**, 639–646, 647–652
Milani, A. 1980, **186**, 391–397
Milborrow, B. V. 1980, **187**, 261–264
Milenkovic, A. G. 1980, **190**, 605–614; 1980, **191**, 21–28
Milgrom, Y. M. 1979, **182**, 617–619; 1980, **192**, 483–488
Miller, A. L. 1980, **186**, 971–975
Miller, J. 1980, **185**, 667–677
Miller, J. K. 1980, **188**, 55–60
Miller, M. 1979, **184**, 125–131
Miller, R. T. 1980, **189**, 45–49
Mills, G. 1980, **189**, 337–347
Millward, D. J. 1980, **190**, 225–228
Milman, H. A. 1979, **181**, 51–59
Milner-White, E. J. 1980, **187**, 297–302
Milsom, J. P. 1979, **182**, 117–125
Mimnaugh, E. G. 1980, **188**, 889–893
Minakami, S. 1980, **192**, 853–860, 861–866
Minatogawa, Y. 1979, **182**, 877–879; 1980, **189**, 581–590
Minchen, M. C. W. 1980, **190**, 333–339
Minelli, A. 1979, **183**, 361–368
Minkel, D. T. 1980, **191**, 475–485
Minkov, I. B. 1980, **188**, 807–815
Minty, B. 1980, **186**, 933–936
Misra, T. N. 1980, **189**, 547–552
Mitchell, W. J. 1979, **182**, 687–696; 1979, **184**, 441–449
Mitropoulos, K. A. 1979, **183**, 309–315; 1980, **185**, 435–441
Mock, N. 1980, **186**, 841–845
Mocquot, B. 1979, **181**, 193–199
Moczar, M. 1979, **182**, 337–345
Mohan, S. B. 1980, **187**, 667–676
Mohr, H. 1980, **188**, 649–656
Moir, A. J. G. 1980, **185**, 505–513; 1980, **191**, 547–554
Mold, D. E. 1980, **190**, 711–719
Molinar, R. R. 1980, **185**, 695–704
Mollinedo, F. 1980, **186**, 713–723
Monaco, M. E. 1980, **188**, 437–441
Mondovi, B. 1980, **187**, 361–366
Montague, W. 1980, **186**, 733–738
Montanaro, L. 1980, **185**, 203–210; 1980, **186**, 443–452
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Mookerjea, S. 1979, **184**, 391–397
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Moore, H.-P. 1980, **185**, 667–677
Moore, T. A. 1980, **189**, 413–420
Moran, D. M. 1980, **191**, 233–237
Morck, T. 1980, **186**, 399–403
Moreland, B. 1980, **185**, 593–599
Morelli, A. 1979, **181**, 559–568
Morelli, P. 1980, **186**, 439–441
Morelos, B. S. 1979, **184**, 233–244; 1980, **190**, 405–419
Moreton, K. 1980, **185**, 483–488
Morgan, C. J. 1980, **186**, 763–772, 993–996
Morgan, W. T. 1979, **182**, 47–54
Morgan-Hughes, J. A. 1979, **181**, 545–557
Mori, Y. 1980, **185**, 443–450
Mornex, R. 1980, **192**, 801–812
Morpeth, F. F. 1980, **191**, 619–626
Morpurgo, L. 1980, **187**, 361–366, 367–370
Morris, J. G. 1980, **186**, 191–199
Morrison, A. 1980, **188**, 609–618
Mortel, R. 1980, **185**, 733–738
Morton, D. J. 1979, **183**, 663–667; 1980, **186**, 89–98, 99–104, 105–109
Moser, U. K. 1980, **192**, 377–380
Moss, D. W. 1979, **183**, 189–192
Mottola, C. 1979, **182**, 655–660
Moudgil, V. K. 1980, **190**, 799–808, 809–818
Mowbray, J. 1979, **184**, 527–538
Mudd, J. B. 1979, **184**, 565–569, 571–574
Muir, H. 1980, **185**, 107–114; 1980, **188**, 823–837
Mukkur, T. K. S. 1979, **183**, 463–465
Mullen, E. 1979, **183**, 175–178
Mullen, P. E. 1980, **185**, 537–540
Muller-Eberhard, U. 1979, **184**, 689–694
Mullock, B. M. 1980, **190**, 819–826
Muniyappa, K. 1980, **186**, 201–210; 1980, **187**, 537–540
Munniksma, J. 1980, **192**, 613–621
Muñoz, E. 1980, **186**, 713–723
Murer, H. 1979, **182**, 223–229; 1980, **186**, 169–176, 177–181
Murphy, G. 1980, **192**, 517–525
Murphy, R. F. 1980, **187**, 303–309, 311–320
Murray, K. 1980, **185**, 59–63, 65–75
Murray, K. J. 1980, **192**, 967–970
Murray, R. K. 1979, **182**, 317–327; 1980, **187**, 147–156
Mushiri, M. S. 1980, **189**, 189–192
Mutopo, D. S. 1979, **181**, 779–781
Myer, J. 1980, **191**, 665–668
Myer, Y. P. 1980, **188**, 289–295
Myllylä, R. 1979, **182**, 311–316

Nace, C. S. 1980, **188**, 925–928
Nadler, H. L. 1980, **189**, 9–15
Nagamatsu, Y. 1980, **185**, 227–237
Nagel, W. O. 1979, **184**, 185–188
Nairn, A. C. 1980, **185**, 755–760
Nakamura, H. 1979, **182**, 371–375, 377–382; 1979, **184**, 143–148
Nakamura, M. 1979, **182**, 877–879; 1980, **189**, 581–590
Nakanishi, J. 1979, **182**, 877–879; 1980, **189**, 581–590
Nakano, K. 1979, **184**, 663–668
Nakano, Y. 1980, **186**, 377–380
Nakazawa, K. 1980, **191**, 193–207
Nanno, M. 1979, **182**, 371–375
Napoli, J. L. 1980, **186**, 475–481

Nardin-Davis, S. A. 1980, **192**, 733–740
Nathan, N. 1980, **190**, 225–228
Naudé, R. J. 1980, **187**, 245–248
Neat, C. E. 1980, **186**, 369–371
Needleman, P. 1979, **184**, 345–354
Neher, R. 1980, **186**, 391–397
Neuberger, M. S. 1979, **183**, 31–42
Neujahr, H. Y. 1980, **185**, 783–786; 1980, **191**, 37–43
Newbury, J. 1979, **182**, 837–845
Newby, A. C. 1980, **186**, 907–918
Newman, G. E. 1979, **183**, 781–736
Newsholme, E. A. 1979, **182**, 621–624; 1979, **184**, 313–322
Nicholls, A. C. 1980, **185**, 195–201
Nicholls, D. G. 1980, **186**, 21–33, 833–839; 1980, **188**, 113–118; 1980, **192**, 873–880
Nicholls, D. M. 1980, **190**, 341–348, 791–797
Nicholls, P. 1979, **183**, 519–529; 1979, **184**, 125–131; 1980, **187**, 809–818
Nicholson, R. A. 1979, **182**, 745–750
Nicola, N. A. 1980, **185**, 301–314
Nicotra, F. 1979, **183**, 495–499
Niederman, R. A. 1980, **186**, 453–459
Nieduszynski, I. A. 1980, **185**, 107–114
Nielsen, T. B. 1980, **190**, 439–443
Niemeyer, R. E. 1979, **184**, 7–12
Nieto, A. 1980, **186**, 953–957
Nikkilä, E. A. 1979, **181**, 245–246
Nishizawa, Y. 1980, **191**, 71–82
Nitta, K. 1979, **183**, 255–268
Noff, D. 1979, **184**, 157–161
Nordin, P. 1980, **190**, 605–614; 1980, **192**, 569–577
Norén, O. 1980, **189**, 591–603
Norris, R. 1979, **183**, 369–373
Northcote, D. H. 1980, **186**, 411–421; 1980, **190**, 255–261
Nosadini, R. 1980, **190**, 323–332
Noteborn, M. 1980, **192**, 613–621
Novak, R. F. 1980, **188**, 509–519, 521–527
Novikova, L. A. 1979, **182**, 195–202
Novosad, Z. 1980, **186**, 641–647
Nowak, H. 1979, **184**, 683–687
Nugent, P. P. 1980, **189**, 467–473
Nunez, E. A. 1980, **187**, 851–856
Nunn, J. F. 1980, **186**, 933–936
Nusgens, B. V. 1980, **191**, 699–706
Nustad, K. 1980, **189**, 153–159
Nuutinen, E. M. 1980, **188**, 725–729
Nyfeler, M. 1980, **192**, 377–380

Obrebska, M. J. 1980, **188**, 107–112
O'Brien, M. M. 1980, **187**, 21–30
O'Carra, P. 1980, **187**, 303–309, 311–320
Odessey, R. 1980, **192**, 155–163
O'Donnell, M. J. 1980, **191**, 449–455
Oelofsen, W. 1980, **187**, 245–248
Offord, R. E. 1979, **182**, 249–251; 1980, **187**, 239–243
Ogata, E. 1979, **184**, 269–275
Ogbimi, O. 1979, **182**, 763–769
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Ohisalo, J. J. 1980, **186**, 609–612
Ohki, S. 1980, **186**, 227–233
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Oikonomakos, N. G. 1979, **181**, 309–320
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Okajima, F. 1979, **182**, 565–575, 577–584, 585–592, 727–734
Okamoto, Y. 1980, **188**, 905–911
O'Keefe, D. 1979, **181**, 763–766
O'Keefe, D. T. 1980, **190**, 481–484; 1980, **192**, 411–419
Okuno, E. 1980, **192**, 877–879; 1980, **189**, 581–590
Olayemi, J. Y. 1979, **183**, 657–662
Oldham, R. S. 1979, **183**, 507–511
O'Leary, M. K. 1980, **187**, 257–260
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Oliver, I. T. 1980, **188**, 929–932; 1980, **190**, 685–690
Oliver, R. I. C. 1979, **181**, 159–169
Oliver, R. P. 1980, **191**, 277–280
Ollis, C. 1980, **188**, 393–400
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Olson, M. S. 1980, **192**, 741–751
O'Malley, B. W. 1979, **181**, 201–213
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Onyon, L. J. 1980, **190**, 843–845
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Orlek, B. S. 1980, **187**, 797–802
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Orrenius, S. 1979, **184**, 709–711
Ørstavik, P. 1980, **189**, 153–159
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Pace, W. 1980, **187**, 637–645
Padmanaban, G. 1979, **183**, 501–506; 1980, **186**, 81–87; 1980, **191**, 29–36
Paine, A. J. 1979, **184**, 461–463; 1980, **188**, 937–939
Palacon-Rornero, R. 1979, **184**, 527–538
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Palmer, R. M. 1980, **192**, 623–629, 631–636
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Panten, U. 1980, **186**, 135–144
Papa, S. 1979, **182**, 133–147; 1980, **192**, 203–318
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Parkash, O. 1980, **185**, 609–610
Parke, D. V. 1979, **184**, 509–517; 1980, **188**, 107–112, 867–872
Parker, C. W. 1979, **182**, 525–536, 537–546
Parker, D. 1979, **181**, 737–756
Parker, M. G. 1980, **188**, 667–676; 1980, **190**, 505–512
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Philippe, J.
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Pasanen, M. 1980, **191**, 719–727
Paschke, E. 1979, **181**, 677–684
Paskin, N. 1980, **192**, 311–320
Pasnak, C. F. 1979, **183**, 213–221
Pasquini, J. M. 1980, **186**, 127–133
Passarella, S. 1980, **192**, 649–658
Pasternak, C. A. 1980, **186**, 847–860; 1980, **190**, 625–638, 639–646, 647–652
Paszkowski, J. 1980, **186**, 343–350
Patel, M. S. 1979, **184**, 539–546
Patel, T. B. 1980, **188**, 163–168
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Paulsson, M. 1979, **183**, 539–545
Payne, W. J. 1980, **187**, 703–709
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Pearce, R. H. 1980, **191**, 761–768
Pearlstein, E. 1980, **186**, 551–559
Pearson, C. K. 1980, **187**, 91–103
Pearson, J. D. 1980, **190**, 421–429
Peart, W. S. 1979, **182**, 301–309
Pecquery, R. 1980, **192**, 947–950
Peeters, C. 1980, **186**, 1009–1011; 1980, **188**, 141–144
Pegg, A. E. 1980, **187**, 419–428
Pégorier, J.-P. 1979, **182**, 593–598
Pellet, M. 1980, **188**, 873–880
Pena, S. D. J. 1980, **189**, 337–347
Pennings, E. J. M. 1980, **191**, 133–138
Penniston, J. T. 1980, **189**, 455–459
Penny, D. 1980, **187**, 65–74
Peppard, J. 1980, **190**, 819–826
Pepper, D. S 1980, **191**, 769–776
Percy-Robb, I. W. 1979, **181**, 61–66, 699–708; 1980, **185**, 83–87
Perera, P. A. J. 1979, **184**, 261–267
Perham, R. N. 1979, **183**, 429–444; 1980, **187**, 393–401, 905–908; 1980, **189**, 161–172; 1980, **191**, 147–154
Perkins, S. J. 1979, **181**, 21–36
Perrett, D. 1980, **186**, 331–341
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Perry, S. V. 1979, **183**, 285–295; 1980, **185**, 505–513, 755–760; 1980, **189**, 227–240; 1980, **191**, 547–554
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Peschek, G. A. 1980, **186**, 515–523
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Peters, T., Jr. 1980, **191**, 281–283, 867–868
Peters, T. J. 1980, **192**, 527–535
Petersen, L. C. 1979, **184**, 125–131; 1980, **192**, 687–693
Peterson, G. L. 1980, **192**, 107–118
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Petriella, C. 1980, **191**, 257–260
Petrucci, T. 1980, **187**, 637–645
Peuhkurinen, K. J. 1980, **188**, 725–729
Phelps, C. F. 1980, **185**, 197–114
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Philippe, M. 1980, **189**, 635–639
Phillips, D. C. 1979, **181**, 21–36, 497–499
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Pierce, R. J. 1980, **185**, 261–264
Pierzchala, P. A. 1979, **183**, 555–559
Pietras, R. J. 1980, **191**, 743–760
Pitot, H. C. 1980, **187**, 197–204
Plaut, G. W. E. 1980, **190**, 581–592
Plesser, T. 1980, **189**, 421–433
Plumbridge, T. W. 1980, **191**, 855–858
Poat, P. C. 1980, **185**, 289–299
Pocius, P. A. 1980, **188**, 565–568
Podesta, E. J. 1980, **186**, 391–397
Poerio, E. 1980, **187**, 637–645; 1980, **191**, 341–348
Pogson, C. I. 1979, **182**, 789–796; 1980, **186**, 35–45, 977–986; 1980, **189**, 305–312, 461–466; 1980, **192**, 673–686
Poirier, M. C. 1980, **187**, 281–284
Pollak, J. K. 1980, **186**, 361–367; 1980, **192**, 78–83
Pollitt, R. J. 1980, **185**, 593–599
Pollock, A. 1980, **185**, 601–607; 1980, **188**, 393–400
Poncet, C. 1980, **192**, 801–812
Pontremoli, S. 1979, **181**, 559–568
Poole, P. L. 1979, **183**, 633–646
Poole, R. K. 1979, **184**, 379–389, 555–563; 1980, **190**, 385–393
Port, A. E. 1979, **183**, 721–730
Porteous, D. J. 1980, **190**, 1–15
Porteous, J. W. 1980, **188**, 609–618, 619–632
Porteous, R. 1980, **192**, 191–202
Porter, R. R. 1980, **189**, 67–80; 1980, **191**, 173–182
Pösö, H. 1980, **188**, 491–501; 1980, **192**, 59–63
Possani, L. D. 1980, **185**, 695–704
Postle, A. D. 1980, **192**, 65–73
Potter, J. 1980, **187**, 429–436
Poulsen, K. 1980, **191**, 475–485
Powell, G. M. 1980, **186**, 279–286; 1980, **188**, 561–564
Powell, J. T. 1980, **187**, 123–129; 1980, **188**, 1–8
Power, D. M. 1980, **191**, 457–465
Praaning-van Dalen, D. 1980, **192**, 613–621
Pradet, A. 1980, **190**, 39–44
Prasad, V. R. 1979, **183**, 501–506
Preedy, V. R. 1980, **192**, 719–723
Prentki, M. 1980, **186**, 525–534
Preston, B. N. 1979, **181**, 257–266; 1979, **183**, 1–9
Pretorius, P. J. 1980, **188**, 689–694
Price, K. M. 1980, **191**, 571–580
Price, N. C. 1979, **181**, 467–475
Priddle, J. D. R. 1980, **188**, 239–243
Priest, D. G. 1980, **187**, 727–732, 733–738
Prigent, M. J. 1980, **189**, 185–188
Primrose, S. B. 1979, **182**, 827–836
Prpić, V. 1980, **188**, 443–450
Prudente, W. J. 1980, **186**, 145–152
Pryde, J. G. 1980, **190**, 273–282
Puistola, U. 1980, **189**, 247–253
Pullinger, C. R. 1979, **183**, 309–315
Punjani, N. F. 1979, **184**, 165–168; 1980, **192**, 449–455
Purnell, M. R. 1980, **185**, 775–777
Putnam, F. W. 1980, **191**, 867–868

Qadri, F. 1980, **191**, 53–62
Quagliariello, E. 1980, **192**, 649–658
Quarles, R. H. 1979, **183**, 205–212, 213–221
Quaroni, A. 1979, **182**, 203–212, 213–221; 1980, **192**, 133–144, 145–153
Quayle, J. R. 1979, **181**, 517–524
Quincey, R. V. 1979, **181**, 301–308

Quinn, P. J. 1980, **185**, 715–722
Quintart, J. 1979, **184**, 133–141
Qureshi, R. 1979, **181**, 725–732
Qureshi, S. A. 1980, **188**, 921–924

Rabin, B. R. 1980, **190**, 737–746
Rachamin, G. 1980, **186**, 483–490
Racs, J. 1980, **185**, 667–677
Radcliffe, P. M. 1979, **181**, 427–433
Radda, G. K. 1979, **184**, 547–554
Raftery, M. A. 1980, **185**, 667–677
Ragan, C. I. 1979, **181**, 435–443; 1980, **185**, 315–326; 1980, **191**, 429–436; 1980, **192**, 9–18, 19–31
Raggi, A. 1979, **182**, 361–366; 1980, **189**, 367–368
Rahim, Z. H. A. 1979, **184**, 173–176; 1980, **186**, 331–341
Räihä, N. C. R. 1980, **186**, 609–612
Rajaram, O. V. 1980, **186**, 431–438
Ramasarma, T. 1979, **181**, 143–151
Ramesh, K. S. 1980, **187**, 249–252, 623–636
Ramey, E. R. 1980, **191**, 869–872
Ramwell, P. W. 1980, **191**, 869–872
Randle, P. J. 1979, **181**, 419–426, 427–433; 1980, **188**, 409–421
Ranieri-Raggi, M. 1979, **182**, 361–366; 1980, **189**, 367–368
Rannels, D. E. 1980, **188**, 269–278
Rao, G. S. 1979, **182**, 473–491
Rao, K. K. 1980, **192**, 665–672
Rao, M. L. 1979, **182**, 473–491
Rao, M. R. S. 1979, **183**, 501–506
Raper, S. M. 1979, **182**, 771–778
Rasheed, B. K. A. 1980, **190**, 191–198
Rasmussen, R. D. 1980, **186**, 693–700
Rattazzi, M. C. 1980, **192**, 813–820
Rawal, S. 1980, **190**, 131–137
Ray, T.K. 1979, **182**, 637–640
Raymond, J. 1979, **183**, 339–347
Raymond, P. 1980, **190**, 39–44
Raz, A. 1979, **182**, 821–825; 1980, **192**, 127–131
Reber, G. 1980, **185**, 253–257
Record, M. 1980, **187**, 115–121
Reddi, A. H. 1980, **186**, 919–924
Reddy, J. K. 1980, **188**, 731–740, 921–924
Reddy, M. K. 1980, **188**, 731–740, 921–924
Reed, R. G. 1980, **191**, 281–283, 867–868
Reek, C. 1979, **184**, 245–251
Rees, A. R. 1980, **188**, 9–16
Rees, H. H. 1980, **190**, 537–544
Reeves, B. E. A. 1980, **185**, 435–441
Regan, C. 1979, **184**, 619–626
Regoeczi, E. 1979, **181**, 633–638; 1979, **184**, 399–407; 1980, **192**, 929–934
Reid, G. A. 1979, **182**, 465–472
Reid, K. B. M. 1979, **181**, 419–426; 1980, **187**, 863–874
Reinauer, H. 1980, **186**, 945–952
Reinecke, C. J. 1980, **188**, 689–694
Reinke, L. A. 1979, **184**, 675–681
Reiter, R. 1979, **184**, 149–156
Reitz, B. A. 1980, **192**, 709–717
Remberg, G. 1980, **192**, 331–337
Rennie, M. J. 1980, **190**, 225–228
Reutter, W. 1980, **190**, 51–55
Reynolds, C. H. 1980, **185**, 451–454
Reynolds, J. J. 1980, **192**, 517–525
Rezvan, H. 1980, **189**, 209–218
Ricci, G. L. 1979, **182**, 881–884
Richards, D. E. 1979, **182**, 39–45, 599–606
Richardson, P. J. 1980, **186**, 897–906
Richert, N. D. 1980, **188**, 423–485
Riches, D. W. H. 1980, **188**, 933–936
Richmond, R. 1979, **184**, 469–472
Řičný, J. 1980, **188**, 683–688
Riding, G. A. 1980, **189**, 295–303
Riesenfeld, J. 1980, **189**, 625–633
Riklis, E. 1979, **183**, 179–180
Rippa, M. 1979, **183**, 297–302
Risnik, V. V. 1980, **191**, 851–854
Risteli, J. 1979, **183**, 303–307; 1980, **191**, 517–522
Robaire, B. 1980, **189**, 135–142
Robel, P. 1980, **185**, 733–738
Robert, L. 1979, **182**, 337–345
Roberts, D. 1979, **183**, 349–360; 1980, **189**, 561–567, 569–579
Roberts, G. C. K. 1980, **187**, 501–506
Roberts, L. M. 1979, **182**, 629–631
Roberts, S. 1979, **184**, 233–244; 1980, **190**, 405–419
Robertson, S. 1980, **189**, 441–445
Robin, J. M. 1979, **183**, 339–347
Robins, S. P. 1979, **181**, 75–82; 1980, **192**, 623–629, 631–63
Robinson, D. 1979, **183**, 623–632; 1980, **187**, 541–543
Robinson, D. S. 1980, **188**, 185–192, 193–199
Robkin, L. 1979, **182**, 413–419
Robson, R. L. 1979, **181**, 569–575
Rodan, G. A. 1980, **185**, 617–627, 629–637
Rodan, S. B. 1980, **185**, 617–627, 629–637
Rodman, J. S. 1980, **192**, 597–606
Roebothan, B. V. 1980, **190**, 395–403
Rogers, L. J. 1980, **192**, 665–672
Rolls, B. J. 1980, **186**, 1005–1008
Romeo, D. M. 1979, **182**, 655–660
Romero, F. J. 1980, **188**, 545–552
Romslo, I. 1980, **188**, 329–335, 459–465
Roncardi, D. A. K. 1980, **192**, 165–175
Ronchetti, F. 1979, **183**, 495–499
Roobol, A. 1980, **189**, 305–312
Roomi, M. W. 1980, **192**, 165–175
Ropars, M. 1980, **185**, 253–257
Rose, D. R. 1979, **181**, 497–499
Rose, K. 1980, **187**, 239–243
Rösen, P. 1980, **186**, 945–952
Rosenberg, D. W. 1980, **190**, 465–468
Rosenberg, H. 1979, **184**, 13–21; 1980, **188**, 715–723
Ross, B. D. 1980, **190**, 27–37, 771–780
Rotilio, G. 1980, **187**, 361–366, 367–370
Roufogalis, B. D. 1980, **187**, 507–513
Roughan, P. G. 1979, **184**, 193–202, 565–569, 571–57
1980, **188**, 17–24
Roughley, P. J. 1980, **185**, 33–39, 705–713
Rousset, B. 1980, **192**, 801–812
Roux, J.-M. 1980, **185**, 273–276
Rowe, E. A. 1980, **186**, 1005–1008
Rowlatt, C. 1980, **187**, 353–360
Roy, P. D. 1980, **191**, 233–237
Royce, P. M. 1980, **192**, 579–586

Rozovski, S.
Ruderman,
Ruebner, B.
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Russell, L. M
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Russell, S. H
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Rutherford,
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Ryan, N. M.
Ryan, R. J.
Ryan, U. S.

Sachan, D. S
Særmark, T.
Saez, J. M.
Saggerson,
1980, **18**
292, 659
Sagnella, G.
Sainsbury, G
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Salamino, F.
Sale, G. J. 19
Saleem, M.
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Satrústegui, J
Satyanarayan
Sauer, F.-D.
Sauer, L. A.
Sauerheber,
Savage, C. R
Savolainen, M
Savu, L. 1980
Sawada, Y. 1
Sawyer, L. 19

Rozovski, S. J. 1980, **192**, 725–735, 765–767
Ruderman, N. B. 1980, **190**, 57–64; 1980, **192**, 725–732
Ruebner, B. H. 1980, **186**, 693–700
Rumsby, M. G. 1980, **188**, 39–46
Ruoslahti, E. 1980, **190**, 301–305
Rush, J. D. 1979, **182**, 861–865
Russell, L. M. 1979, **184**, 13–21; 1980, **188**, 715–723
Russell, N. J. 1979, **181**, 339–345; 1980, **188**, 585–592
Russell, S. H. M. 1980, **185**, 301–341
Russell, S. M. 1979, **181**, 7–14, 15–20; 1980, **192**, 321–330
Russell, T. R. 1979, **182**, 509–514
Russo, G. 1979, **183**, 495–499
Ruth, R. C. 1980, **186**, 243–256
Rutherford, A. W. 1979, **182**, 515–523
Ryan, J. W. 1979, **184**, 7–12, 713–716; 1980, **186**, 605–608
Ryan, N. M. 1980, **188**, 569–572
Ryan, R. J. 1980, **188**, 423–435
Ryan, U. S. 1980, **186**, 605–608

Sachan, D. S. 1980, **188**, 529–534
Særmark, T. 1979, **181**, 321–330
Saez, J. M. 1979, **182**, 717–725
Saggerson, E. D. 1979, **182**, 751–762; 1979, **184**, 59–62; 1980, **188**, 757–761; 1980, **190**, 119–123, 183–189, 283–292, 659–662
Sagnella, G. A. 1979, **182**, 301–309
Sainsbury, G. M. 1980, **191**, 333–339
Saklatvala, J. 1979, **184**, 177–180
Salamino, F. 1979, **181**, 559–568
Sale, G. J. 1980, **188**, 409–421
Saleem, M. 1980, **190**, 341–348
Salerno, J. C. 1980, **192**, 769–781
Sallis, J. D. 1979, **184**, 181–184
Salmi, A. 1980, **185**, 189–194
Salminen, K. 1980, **191**, 719–727
Salonen, E. 1980, **191**, 719–727
Salvatore, A. K. 1980, **187**, 437–446
Salvesen, G. S. 1980, **187**, 695–701
Sammes, P. G. 1980, **187**, 797–802
Sandall, J. M. 1979, **182**, 157–164
Sandbjerg Hansen, M. 1980, **187**, 173–180
Sandercock, S. P. 1980, **188**, 585–592
Sandy, J. D. 1980, **188**, 119–130
Saneto, R. P. 1980, **191**, 1–10, 11–20
Sani, B. P. 1980, **190**, 839–842
Sargus, M. J. 1979, **182**, 847–859
Saris, N.-E. L. 1980, **192**, 911–917
Sarma, M. H. 1980, **189**, 143–152
Saryan, L. A. 1980, **189**, 95–104
Sasaki, N. 1980, **187**, 479–492
Sasaki, T. 1980, **189**, 381–383
Satrústegui, J. 1980, **186**, 799–803
Satyanarayana Rao, M. R. 1980, **186**, 81–87
Sauer, F.-D. 1980, **190**, 177–182
Sauer, L. A. 1979, **184**, 185–188
Sauerheber, R. D. 1980, **190**, 131–137
Savage, C. R., Jr. 1980, **188**, 175–184
Savolainen, M. J. 1979, **182**, 95–102
Savu, L. 1980, **187**, 851–856
Sawada, Y. 1980, **186**, 889–895
Sawyer, L. 1980, **187**, 884–886
Saxton, J. 1980, **192**, 311–320
Say, A. K. 1979, **184**, 651–661
Sayers, C. A. 1979, **181**, 401–418; 1980, **189**, 255–261
Scalera, V. 1980, **186**, 177–181
Schaffer, W. T. 1980, **192**, 741–751
Schären, H. 1979, **183**, 507–511
Schlepper-Schäfer, J. 1980, **186**, 827–831
Schlesinger, P. H. 1980, **192**, 597–606
Schmidt, E. 1980, **192**, 331–337, 339–347
Schneider, C. 1979, **182**, 655–660
Schnoes, H. K. 1979, **182**, 1–9
Schofield, P. J. 1980, **187**, 21–30
Scholz, R. 1980, **186**, 997–1000
Schor, S. L. 1980, **190**, 243–254
Schrader, W. T. 1979, **181**, 201–213
Schrevel, J. 1980, **191**, 543–546
Schröck, H. 1980, **188**, 557–560
Schulster, D. 1980, **186**, 599–603
Schultz, D. R. 1979, **184**, 7–12
Schultz, T. A. 1980, **186**, 733–738
Schuppan, D. 1980, **191**, 517–522
Schwabe, U. 1980, **186**, 997–1000
Schwalbe, C. H. 1980, **187**, 533–536
Schwarting, G. A. 1980, **189**, 407–412
Schwartz, L. R. 1980, **189**, 369–372
Schwartz, R. J. 1979, **184**, 331–343
Schwartz, W. N. 1980, **191**, 487–497
Schwartzman, M. 1980, **192**, 127–131
Schwenke, W. D. 1980, **192**, 951–954
Schwitzguebel, J.-P. 1980, **187**, 321–328
Schwoch, G. 1980, **192**, 223–230
Schwyzer, R. 1980, **186**, 599–603
Scott, F. W. 1980, **190**, 721–730
Scott, G. K. 1979, **182**, 407–412
Scott, I. D. 1980, **186**, 21–33, 833–839; 1980, **192**, 873–880
Scott, J. E. 1979, **181**, 445–449; 1979, **183**, 91–97; 1980, **187**, 887–891
Scott, M. E. 1979, **183**, 513–517
Scriver, C. R. 1980, **190**, 473–476
Seargeant, L. E. 1979, **181**, 247–250
Seeger, J. W., Jr. 1980, **188**, 573–576
Seeley, P. J. 1979, **184**, 547–554
Segal, A. W. 1979, **182**, 181–188
Segal, S. 1980, **192**, 119–126
Segura, E. L. 1979, **184**, 409–419
Sehlin, J. 1979, **182**, 17–25
Seider, M. J. 1980, **188**, 247–254
Seiler, S. 1980, **188**, 47–54
Seitz, U. 1980, **191**, 165–171
Sekiguchi, J. 1979, **182**, 445–453
Seljelid, R. 1979, **182**, 189–193
Sellers, A. 1980, **189**, 521–531
Selvendran, R. R. 1980, **187**, 53–63
Sen, P. C. 1979, **182**, 637–640
Sener, A. 1979, **184**, 291–301, 303–311; 1980, **186**, 183–190
Seppa, H. 1979, **182**, 311–316
Seppänen, P. 1980, **192**, 941–945
Serafini-Cessi, F. 1979, **183**, 381–388; 1980, **187**, 525–528
Severin, S. E. 1980, **189**, 219–226; 1980, **191**, 851–854
Shabarova, Z. A. 1979, **182**, 617–619
Shama Bhat, C. 1979, **181**, 143–151

Shankara, B. 1980, **189**, 95–104
Shapiro, S. G. 1980, **190**, 755–764
Sharma, R. N. 1979, **182**, 317–327
Sharma, R. P. 1979, **181**, 355–366
Shaw, B. D. 1980, **190**, 551–561
Shaw, C. F. 1980, **189**, 95–104; 1980, **191**, 475–485
Shaw, D. J. 1980, **187**, 181–196
Shaw, E. 1980, **186**, 385–390
Shaw, F. D. 1980, **186**, 105–109
Shaw, S. R. 1980, **186**, 47–57
Sheehan, J. K. 1980, **185**, 107–114
Sheltawy, A. 1980, **191**, 523–532
Shen, G. 1979, **182**, 241–243
Shenai, R. 1979, **182**, 735–743
Shepard, R. M. 1979, **182**, 55–69
Shepherd, M. G. 1980, **191**, 83–94
Shetty, J. K. 1980, **189**, 363–366; 1980, **191**, 269–272
Shigeoka, S. 1980, **186**, 377–380
Shimazawa, E. 1979, **184**, 269–275
Shimp, J. 1979, **184**, 701–704
Shinkai, H. 1980, **191**, 699–706
Shipton, M. 1979, **183**, 223–231
Shooter, K. V. 1979, **183**, 657–662
Shriver, K. K. 1980, **189**, 277–284
Shukla, S. D. 1980, **186**, 13–19; 1980, **187**, 277–280; 1980, **188**, 131–135
Shyamala, G. 1979, **182**, 127–131
Siddik, Z. H. 1980, **188**, 889–893
Siegel, R. C. 1979, **181**, 639–645
Sies, H. 1980, **188**, 643–648; 1980, **192**, 951–954
Siess, E. A. 1980, **188**, 207–212
Signorini, M. 1979, **183**, 297–302
Sikri, K. L. 1979, **181**, 525–532
Silano, V. 1980, **187**, 637–645
Silbert, J. E. 1980, **190**, 307–313
Silvestrini, M. C. 1979, **183**, 701–709
Sim, R. B. 1979, **181**, 647–658
Simon, M. 1980, **186**, 945–952
Simpson, J. 1979, **182**, 253–255
Sims, N. R. 1979, **181**, 367–375
Sims, P. F. G. 1979, **182**, 493–502; 1980, **190**, 157–170
Sinclair, P. R. 1980, **188**, 289–295
Singh, J. 1980, **189**, 369–372
Singh, P. D. 1980, **186**, 881–887, 889–895
Singh, V. P. 1980, **190**, 457–460
Sinha, U. 1980, **190**, 457–460
Sinn, W. 1980, **192**, 395–402
Sinnett-Smith, P. A. 1979, **182**, 421–427; 1980, **186**, 937–944
Sinnott, M. L. 1980, **188**, 337–343
Sivarajah, K. 1979, **184**, 51–57
Sjöberg, I. 1980, **191**, 103–110
Sjöström, H. 1980, **189**, 591–603
Skilleter, D. N. 1980, **188**, 285–288
Skriver, L. 1980, **188**, 695–704
Slack, C. R. 1979, **184**, 193–202, 565–569, 571–574; 1980, **188**, 17–24; 1980, **190**, 551–561
Slavkin, H. C. 1980, **185**, 489–496
Sletten, K. 1980, **185**, 779–782
Slinde, E. 1979, **182**, 347–351
Smalley, J. W. 1980, **190**, 263–272
Smith, A. 1979, **182**, 47–54
Smith, A. E. 1979, **184**, 261–267
Smith, A. G. 1979, **183**, 455–458, 463–465; 1980, **189**, 645–648
Smith, B. E. 1979, **181**, 509–512; 1980, **191**, 449–455
Smith, C. M. 1980, **188**, 175–184
Smith, D. G. 1979, **184**, 107–112
Smith, G. D. 1980, **192**, 527–535
Smith, G. F. 1980, **185**, 1–11
Smith, G. J. 1980, **187**, 353–360
Smith, G. P. 1980, **192**, 527–535
Smith, I. 1980, **185**, 537–540
Smith, K. T. 1979, **184**, 627–633
Smith, M. A. 1979, **183**, 573–578
Smith, M. T. 1979, **182**, 103–108
Smith, P. J. 1980, **188**, 337–343
Smith, R. A. G. 1979, **181**, 111–118
Smith, R. G. 1979, **184**, 331–343; 1980, **192**, 385–393
Smith, S. 1979, **181**, 435–443; 1980, **185**, 315–326
Smith, S. A. 1980, **186**, 977–986; 1980, **189**, 461–466; 1980, **192**, 673–686
Smith, T. 1980, **185**, 411–421
Smyth, D. G. 1980, **189**, 501–506
Snape, B. M. 1980, **186**, 625–627, 755–761
Snell, K. 1980, **190**, 451–455
Sneyd, J. G. T. 1980, **188**, 99–106
Snyder, F. F. 1979, **183**, 589–594
Soboll, S. 1980, **192**, 951–954
Sokolova, N. I. 1979, **182**, 617–619
Solanki, K. 1980, **192**, 377–380
Solaro, R. J. 1980, **185**, 505–513
Solomon, S. 1980, **191**, 253–256
Sols, A. 1980, **190**, 705–710
Somero, G. N. 1979, **183**, 317–323
Sönksen, P. H. 1979, **184**, 355–360
Sooranna, S. R. 1979, **184**, 59–62; 1980, **190**, 183–189
Sorgato, M. C. 1979, **183**, 945–948
Sotiroudis, T. G. 1979, **181**, 309–320
Sotman, S. S. 1980, **185**, 545–554
Soto, E. F. 1980, **186**, 127–133
Spach, P. I. 1980, **188**, 817–822
Spalding, M. H. 1979, **184**, 457–460
Sparatore, B. 1979, **181**, 559–568
Spartalian, K. 1980, **191**, 449–455
Speake, B. K. 1980, **192**, 297–301
Speichermann, N. 1980, **185**, 89–99
Sperti, S. 1979, **183**, 381–388; 1980, **185**, 203–210; 1980, **188**, 443–452
Speziale, P. 1980, **187**, 655–659
Spiegel, A. M. 1980, **190**, 439–443
Spik, G. 1980, **185**, 261–264
Sprandel, U. 1980, **190**, 653–658
Springham, M. G. 1979, **183**, 633–646
Squires, E. J. 1980, **185**, 761–766
Srivastava, G. 1980, **188**, 781–788; 1980, **190**, 519–526
Srivastava, P. N. 1979, **181**, 331–337; 1979, **183**, 531–537
Srivastava, S. K. 1980, **191**, 11–20, 827–834
Srivenugopal, K. S. 1980, **189**, 553–560; 1980, **190**, 461–48
Stahl, P. D. 1980, **192**, 597–606
Stahl, W. L. 1980, **185**, 787–790
Stalmans, W. 1980, **192**, 607–612
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Stange, G.
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Stanley, J. C. 1979, **182**, 621–624
Stanley, K. K. 1980, **186**, 59–69
Stansfield, D. A. 1980, **192**, 559–567
Stanworth, D. R. 1979, **181**, 623–632; 1980, **188**, 933–936; 1980, **191**, 233–237
Starr, C. M. 1980, **186**, 399–403
Statham, H. E. 1980, **192**, 257–262
Steele, J. G. 1980, **190**, 685–690
Stefanelli, R. 1979, **182**, 133–147
Steffen, H. 1980, **186**, 391–397
Stein, J. M. 1979, **184**, 253–260; 1980, **188**, 137–140
Stein, R. 1980, **186**, 971–975
Steinert, P. M. 1980, **187**, 281–284, 913–916
Steinmann, B. U. 1980, **186**, 919–924
Stenersen, J. 1979, **181**, 47–50
Stenman, U.-H. 1980, **191**, 719–727
Stepanov, V. M. 1980, **187**, 345–352, 457–465
Stevens, A. N. 1980, **192**, 191–202
Stevens, R. L. 1980, **189**, 45–49
Stevenson, R. 1980, **191**, 233–237
Stewart, A. C. 1980, **188**, 351–361
Stewart, J. M. 1979, **184**, 713–716
Stewart, M. 1979, **181**, 1–5; 1979, **183**, 663–667; 1980, **186**, 99–104
Stienstra, S. 1980, **192**, 613–621
Still, C. C. 1980, **186**, 507–513
Stinson, R. A. 1979, **181**, 247–250
Stirpe, F. 1979, **182**, 633–635; 1980, **185**, 203–210; 1980, **186**, 439–441, 443–452; 1980, **190**, 843–845
Stoll, M. S. 1979, **183**, 139–146
Stoppani, A. O. M. 1980, **188**, 643–648
Storelli, C. 1980, **186**, 169–176, 177–181
Storelli-Joss, C. 1980, **186**, 177–181
Storer, G. B. 1979, **184**, 97–106; 1980, **192**, 219–222
Stowell, C. P. 1980, **192**, 597–606
Strader, C. D. 1980, **185**, 667–677
Strange, R. C. 1979, **181**, 699–708; 1980, **185**, 83–87; 1980, **188**, 465–479
Stuchbury, T. 1979, **183**, 233–238
Stucker, T. 1980, **186**, 693–700
Suda, T. 1979, **184**, 269–275; 1980, **190**, 513–518
Sudhakaran, P. R. 1980, **192**, 395–402
Sugden, P. H. 1979, **181**, 419–426, 427–433; 1980, **190**, 593–603
Sugiyama, S. 1979, **184**, 705–707; 1980, **185**, 281–284; 1980, **190**, 527–532, 533–536
Sulakhe, P. V. 1980, **186**, 469–473
Sundaram, P. V. 1979, **183**, 445–451
Surarit, R. 1980, **191**, 401–410
Surolia, A. 1979, **183**, 185–188; 1980, **191**, 395–400
Suschitzky, H. 1979, **183**, 369–373
Sussman, H. H. 1979, **181**, 67–73
Sutcliffe, R. G. 1980, **191**, 799–809
Sutton, B. J. 1979, **181**, 497–499
Sutton, R. 1980, **186**, 361–367; 1980, **190**, 273–282; 1980, **192**, 75–83
Suzuki, S. 1980, **191**, 193–207
Svasti, J. 1980, **191**, 401–410
Svindahl, K. 1980, **189**, 153–159
Swaneck, G. E. 1980, **192**, 385–393
Swann, D. A. 1980, **185**, 545–554
Swick, R. W. 1979, **184**, 473–476
Swift, I. E. 1980, **187**, 261–264
Swift, T. J. 1980, **188**, 521–527
Swillens, S. 1980, **188**, 169–174
Swisher, R. W. 1979, **184**, 481–489
Sykes, A. G. 1979, **183**, 471–474; 1980, **189**, 641–644
Symonds, H. W. 1980, **186**, 47–57
Symons, A. M. 1980, **185**, 509–517; 1980, **188**, 867–872
Szego, C. M. 1980, **191**, 743–760

Tabiowo, A. 1980, **190**, 65–77
Taegtmeyer, H. 1980, **186**, 701–711
Takagi, M. 1979, **183**, 163–165
Takahashi, H. 1979, **184**, 269–275
Takahashi, N. 1979, **184**, 269–275; 1980, **190**, 513–518
Takahashi, Y. 1980, **191**, 71–82
Takala, T. 1980, **192**, 285–295
Takayanagi, R. 1980, **192**, 853–860, 861–866
Takei, T. 1980, **185**, 177–188
Takeshige, K. 1980, **192**, 853–860, 861–866
Takruri, I. 1980, **185**, 239–243
Täljedal, I.-B. 1979, **182**, 17–25
Tamás, J. 1980, **185**, 659–666
Tanabe, R. 1980, **190**, 513–518
Tanaka, Y. 1979, **183**, 163–165
Tanner, M. J. A. 1979, **181**, 477–493; 1979, **183**, 193–203, 417–427; 1980, **187**, 493–500; 1980, **192**, 457–467
Tantini, B. 1979, **182**, 641–649
Tappin, A. 1979, **182**, 763–769
Tapscott, E. B. 1980, **188**, 255–262
Tarasova, N. I. 1980, **187**, 345–352
Tarelli, E. 1980, **191**, 305–318
Tarrago-Litvak, L. 1979, **181**, 183–191
Tata, J. R. 1980, **187**, 467–477
Taufek, H. R. 1980, **192**, 703–707
Taylor, A. M. R. 1980, **188**, 677–682
Taylor, P. 1979, **184**, 399–407
Taylor, P. M. 1980, **185**, 555–564
Taylor, R. N. 1980, **192**, 385–393
Taylor, T. G. 1979, **182**, 745–750
Taylor, W. M. 1980, **188**, 443–450
Tejčka, M. 1980, **189**, 81–88
Tenenhouse, H. S. 1980, **190**, 473–476
Teng, C. S. 1979, **181**, 585–591; 1979, **182**, 257–269, 271–286; 1980, **185**, 169–175; 1980, **188**, 313–319
Teng, C. T. 1979, **181**, 585–591; 1980, **185**, 169–175; 1980, **188**, 313–319
Tengblad, A. 1979, **181**, 241–243; 1980, **185**, 101–105
Tenneson, M. E. 1979, **184**, 613–618
Tephly, T. R. 1980, **188**, 145–152
Tepperman, H. 1980, **186**, 791–798
Tepperman, J. 1980, **186**, 791–798
Terwilliger, R. C. 1980, **189**, 1–8
Thaler, M. 1980, **186**, 841–845
Tharaud, D. 1979, **181**, 183–191, 193–199
Thatcher, D. R. 1980, **187**, 875–883, 884–886
Thiele, H. G. 1980, **187**, 403–412
Thiessen, B. J. 1980, **186**, 469–473
Thomas, E. W. 1980, **191**, 457–465
Thomas, J. 1980, **190**, 485–494
Thomas, P. 1980, **188**, 881–887; 1980, **191**, 669–672; 1980, **192**, 837–843

Thomas, S. H. L. 1979, **184**, 355–360
Thomassen, M. S. 1980, **186**, 369–371
Thomes, J. C. 1980, **185**, 339–347
Thompson, B. 1980, **188**, 221–228
Thompson, E. J. 1979, **181**, 545–557
Thompson, M. F. 1980, **187**, 819–828
Thompson, R. D. 1980, **187**, 75–90
Thomson, A. J. 1980, **189**, 285–294; 1980, **191**, 319–331, 411–420
Thomson, J. W. 1980, **187**, 501–506
Thonard, J. C. 1979, **183**, 467–470
Thorley-Lawson, D. A. 1980, **185**, 223–226
Thorn, N. A. 1980, **188**, 657–666
Thorpe, A. 1979, **184**, 221–227
Thorpe, R. 1979, **181**, 275–284
Thrower, S. 1979, **182**, 241–243; 1980, **186**, 295–300; 1980, **190**, 691–695
Thunberg, L. 1979, **181**, 241–243
Thurman, R. G. 1979, **184**, 675–681; 1980, **186**, 119–126, 997–1000
Ticho, T. 1980, **191**, 811–826
Timkovich, R. 1980, **185**, 47–57
Timpl, R. 1979, **184**, 683–687; 1980, **191**, 517–522
Tipton, K. F. 1980, **191**, 605–611
Tischler, M. E. 1980, **192**, 963–966
Tökes, L. 1979, **183**, 507–511
Tokutake, S. 1980, **187**, 413–417
Tolleshaug, H. 1980, **190**, 697–703
Tolmasky, M. E. 1980, **191**, 257–260
Tolomelli, B. 1980, **188**, 553–556
Toma, L. 1979, **183**, 495–499
Tomlinson, S. 1980, **185**, 601–607; 1980, **188**, 393–400, 401–407
Tomoda, A. 1979, **181**, 505–507; 1980, **188**, 535–540
Tonegawa, Y. 1979, **181**, 533–538
Tong, C. C. 1980, **191**, 83–94
Topping, D. L. 1979, **184**, 97–106, 501–507; 1980, **192**, 219–222
Tordoff, A. F. C. 1980, **186**, 621–624
Tourian, A. 1980, **190**, 711–719
Town, M.-H. 1979, **183**, 731–736
Treffry, A. 1979, **181**, 709–716
Treiman, M. 1980, **188**, 657–666
Trevett, R. M. 1980, **185**, 355–365
Trimble, R. P. 1979, **184**, 97–106; 1980, **192**, 219–222
Trinnaman, B. J. 1980, **187**, 577–589, 591–616
Troxler, R. F. 1980, **190**, 445–449
Truppe, W. 1979, **181**, 37–46
Trush, M. A. 1979, **183**, 889–893
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Tschopp, J. 1980, **187**, 767–774, 775–780
Tsoi, T. V. 1980, **190**, 145–156
Tsopanakis, A. D. 1979, **181**, 509–512
Tsoutsoulis, C. J. 1980, **191**, 221–227
Tsuji, A. 1980, **188**, 535–540
Tsuji, T. 1980, **187**, 677–686
Tsushima, T. 1980, **187**, 479–492
Tsybovski, I. S. 1980, **192**, 483–488
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Tucker, E. M. 1980, **192**, 33–39
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Tuilie, M. 1980, **185**, 273–276
Tully, M. J. 1980, **191**, 111–116
Turano, C. 1980, **185**, 41–46
Turner, J. M. 1980, **186**, 13–19; 1980, **188**, 131–135
Turner, M. K. 1980, **185**, 555–564
Turpeenniemi-Hujanen, T. M. 1980, **189**, 247–253
Turrens, J. F. 1980, **188**, 643–648; 1980, **191**, 421–427
Twining, S. S. 1980, **191**, 681–697
Tyhurst, M. 1980, **192**, 381–383
Tyler, D. D. 1980, **192**, 821–828
Tyler, J. A. 1979, **183**, 647–656; 1979, **184**, 177–180; 1980, **189**, 349–357
Tyler, M. 1980, **191**, 509–516

Udom, A. O. 1980, **187**, 329–335
Ugalde, R. A. 1980, **191**, 257–260
Ui, M. 1979, **182**, 565–575, 577–584, 585–592
Ullrich, K. 1979, **182**, 245–247, 329–335
Umpleby, A. M. 1979, **182**, 803–809
Utter, M. F. 1980, **188**, 601–608

Vaes, G. 1979, **184**, 643–650; 1980, **192**, 365–368
Vaheri, A. 1979, **183**, 331–337
Vainionpää, R. 1980, **185**, 189–194
Vale, A. M. 1980, **187**, 197–204
Vale, M. G. P. 1980, **186**, 461–467
Vallette, G. 1980, **187**, 851–856
Van den Berghe, G. 1980, **188**, 913–920
Van den Eynde, E. 1980, **186**, 309–316
Vanderleyden, J. 1979, **182**, 437–443; 1980, **186**, 309–316, 1009–1011; 1980, **188**, 141–144; 1980, **192**, 881–885
Van Der Molen, H. J. 1979, **184**, 33–38
Van der Rest, M. 1980, **191**, 253–256
Van Diggelen, O. P. 1980, **188**, 337–343
Van Hinsbergh, V. W. M. 1979, **182**, 353–360
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Veneziale, C. M. 1980, **192**, 41–47
Venkatachalam, K. K. 1979, **182**, 677–686
Verachtert, H. 1979, **182**, 437–443; 1980, **186**, 309–316, 1009–1011; 1980, **188**, 141–144; 1980, **192**, 881–885
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Vessey, D. A. 1980, **186**, 841–845
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Vinay, P. 1980, **188**, 741–748
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Virtanen, I. 1979, **181**, 245–246
Vischer, P. 1980, **190**, 51–55; 1980, **192**, 903–910
Visser, T. J. 1979, **183**, 167–169
Vizel, E. J. 1980, **190**, 473–476
Vladutiu, G. D. 1980, **192**, 813–820
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Voltattorni, C. B. 1979, **183**, 361–368
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von Figura, K. 1979, **182**, 245–247, 329–335; 1980, **186**, 373–375; 1980, **192**, 395–402
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Vuento, M. 1979, **183**, 331–337; 1980, **191**, 719–727
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Wade, A. 1979, **184**, 509–517; 1980, **188**, 867–872
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Waechter, C. J. 1980, **188**, 481–490
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Walker, D. G. 1980, **185**, 565–575, 577–582; 1980, **186**, 817–826
Walker, J. M. 1979, **181**, 659–665; 1980, **185**, 383–386; 1980, **191**, 605–611
Walker, K. 1980, **188**, 193–199
Walker, L. F. 1979, **183**, 83–90
Walker, R. T. 1979, **181**, 783–785; 1980, **187**, 257–260
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Wallace, K. H. 1980, **188**, 9–16
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Wallis, M. 1979, **182**, 735–743; 1980, **189**, 605–614
Wals, P. A. 1979, **182**, 727–734
Walsh, T. A. 1979, **183**, 701–709; 1980, **189**, 285–294
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Ward, C. W. 1980, **189**, 649–652
Ward, S. 1980, **190**, 621–624
Waring, A. J. 1979, **184**, 379–389
Waring, M. J. 1980, **191**, 729–742
Warner, S. J. 1980, **191**, 761–768
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Wasserman, S. I. 1980, **185**, 367–372
Watanabe, Y. 1980, **189**, 393–405
Waters, D. 1979, **184**, 717–719
Watford, M. 1980, **188**, 741–748
Watkins, C. A. 1980, **188**, 269–278
Watson, D. H. 1980, **185**, 463–471
Watson, H. H. K. 1980, **188**, 769–773
Watts, C. 1980, **188**, 99–106
Watts, D. C. 1980, **185**, 593–599; 1980, **191**, 63–70
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Weber, W. W. 1980, **187**, 157–162
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Weinberger, M. J. 1980, **192**, 41–47
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Weintraub, H. 1980, **185**, 723–732
Weisenberg, E. 1980, **188**, 633–641
Weiser, M. M. 1979, **182**, 203–212, 213–221
Weisman, U. 1979, **184**, 157–161
Welch, A. N. 1980, **192**, 403–410
Weliky, B. G. 1980, **185**, 489–496
Wells, E. 1980, **187**, 719–725
Welman, E. 1980, **190**, 139–144
Wharton, S. A. 1980, **191**, 785–790
Whateley, J. G. 1980, **185**, 349–354
Wheeler, K. P. 1979, **182**, 27–32
Whish, W. J. D. 1980, **185**, 775–777
Whitaker, K. B. 1979, **183**, 189–192
White, A. 1980, **188**, 503–507
White, D. A. 1979, **182**, 837–845; 1980, **192**, 297–301
White, G. F. 1980, **185**, 13–21, 23–31; 1980, **187**, 181–196, 703–709; 1980, **191**, 467–473
White, J. O. 1979, **184**, 465–468; 1980, **190**, 17–25, 883–837
White, M. D. 1980, **190**, 621–624
White, R. 1980, **190**, 505–512
Whitney, P. L. 1980, **188**, 1–8
Whittaker, P. A. 1980, **191**, 859–862
Wichman, A. 1979, **181**, 691–698
Wiebel, F. J. 1980, **189**, 369–372
Wiebkin, O. W. 1979, **183**, 467–470
Wieland, O. H. 1980, **188**, 207–212
Wielgus, S. 1980, **189**, 95–104; 1980, **191**, 475–485
Wieslander, J. 1980, **187**, 687–694
Wikman-Coffelt, J. 1980, **185**, 265–268
Wikström, M. 1980, **186**, 637–639
Wild, D. G. 1979, **182**, 493–502; 1980, **190**, 157–170
Wilde, C. J. 1979, **182**, 287–294; 1980, **192**, 311–320
Wilkins, R. G. 1980, **189**, 641–644
Wilkinson, C. F. 1979, **181**, 593–605
Willadsen, P. 1980, **189**, 295–303
Williams, A. F. 1980, **187**, 1–20
Williams, D. G. 1979, **181**, 477–493; 1979, **183**, 417–427
Williams, D. L. 1980, **192**, 733–740
Williams, G. 1979, **184**, 181–184
Williams, J. 1980, **185**, 483–488; 1980, **189**, 541–546
Williams, J. F. 1980, **188**, 847–857, 859–865
Williams, K. E. 1980, **188**, 895–903
Williams, N. E. 1980, **188**, 695–704
Williams, R. 1980, **185**, 639–645; 1980, **186**, 679–685
Williams, R. H. 1980, **190**, 65–77
Williams, T. 1979, **182**, 621–624
Williamson, B. W. A. 1979, **181**, 61–66
Williamson, D. H. 1979, **182**, 593–598; 1980, **186**, 621–624, 1005–1008; 1980, **190**, 477–480; 1980, **192**, 361–364
Williamson, F. B. 1980, **188**, 769–773
Willis, E. D. 1979, **182**, 103–108
Wilson, K. J. 1980, **187**, 515–519
Wilson, S. B. 1980, **190**, 349–360
Winman, B. 1980, **191**, 229–232
Winchester, B. G. 1980, **187**, 541–543; 1980, **189**, 467–473
Winterbourn, C. C. 1979, **182**, 625–628
Winterbourne, D. J. 1979, **182**, 707–716
Winterburn, P. J. 1980, **186**, 279–286
Winzor, D. J. 1980, **186**, 89–98

Wirthensohn, G. 1980, **186**, 317–324
Wishart, G. J. 1980, **186**, 617–619, 687–691
Wisher, M. H. 1979, **184**, 355–360
Witkowski, J. A. 1980, **192**, 257–262
Woessner, J. F., Jr. 1980, **189**, 521–531
Wohllebe, M. 1979, **181**, 667–676
Wolf, H. U. 1979, **181**, 759–761; 1980, **188**, 47–54; 1980, **189**, 81–88; 1980, **191**, 117–124
Wolkowicz, P. E. 1980, **186**, 257–266
Wolosin, J. M. 1980, **189**, 35–44
Wong, J. T.-F. 1980, **185**, 535–536
Wong, K. P. 1979, **181**, 107–110
Wood, E. 1980, **187**, 711–718
Wood, G. C. 1980, **185**, 521–526
Wood, P. M. 1980, **189**, 385–391; 1980, **192**, 761–764
Wood, T. M. 1980, **189**, 51–65
Woodroofe, M. N. 1979, **181**, 137–142
Woodrow, I. E. 1980, **191**, 845–849
Woodward, A. W. 1980, **192**, 829–836
Woodward, J. R. 1980, **192**, 659–664
Worm-Petersen, S. 1980, **188**, 657–666
Wrigglesworth, J. M. 1980, **187**, 837–841
Wright, B. E. 1979, **184**, 581–588, 589–597
Wright, H. 1980, **190**, 551–561
Wright, J. K. 1980, **187**, 767–774, 775–780
Wright, J. N. 1980, **185**, 411–421
Wu, W. 1980, **185**, 667–677
Wusteman, F. S. 1980, **186**, 279–286
Wuytack, F. 1980, **190**, 827–831
Wyke, A. M. 1980, **190**, 625–638

Yancey, P. H. 1979, **183**, 317–323
Yang, T. 1979, **181**, 763–766
Yaqoob, M. 1980, **185**, 541–543
Yedgar, S. 1980, **185**, 794–754
Yeo, T. 1979, **181**, 107–110
Yeoh, G. C. T. 1980, **188**, 929–932
Yeoman, M. M. 1979, **184**, 215–219
Yoch, D. C. 1980, **187**, 273–276
Yokota, A. 1979, **184**, 189–192
Yon, R. J. 1979, **183**, 239–245, 247–254; 1980, **185**, 211–216
Yoneyama, Y. 1979, **181**, 505–507; 1980, **188**, 535–540
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